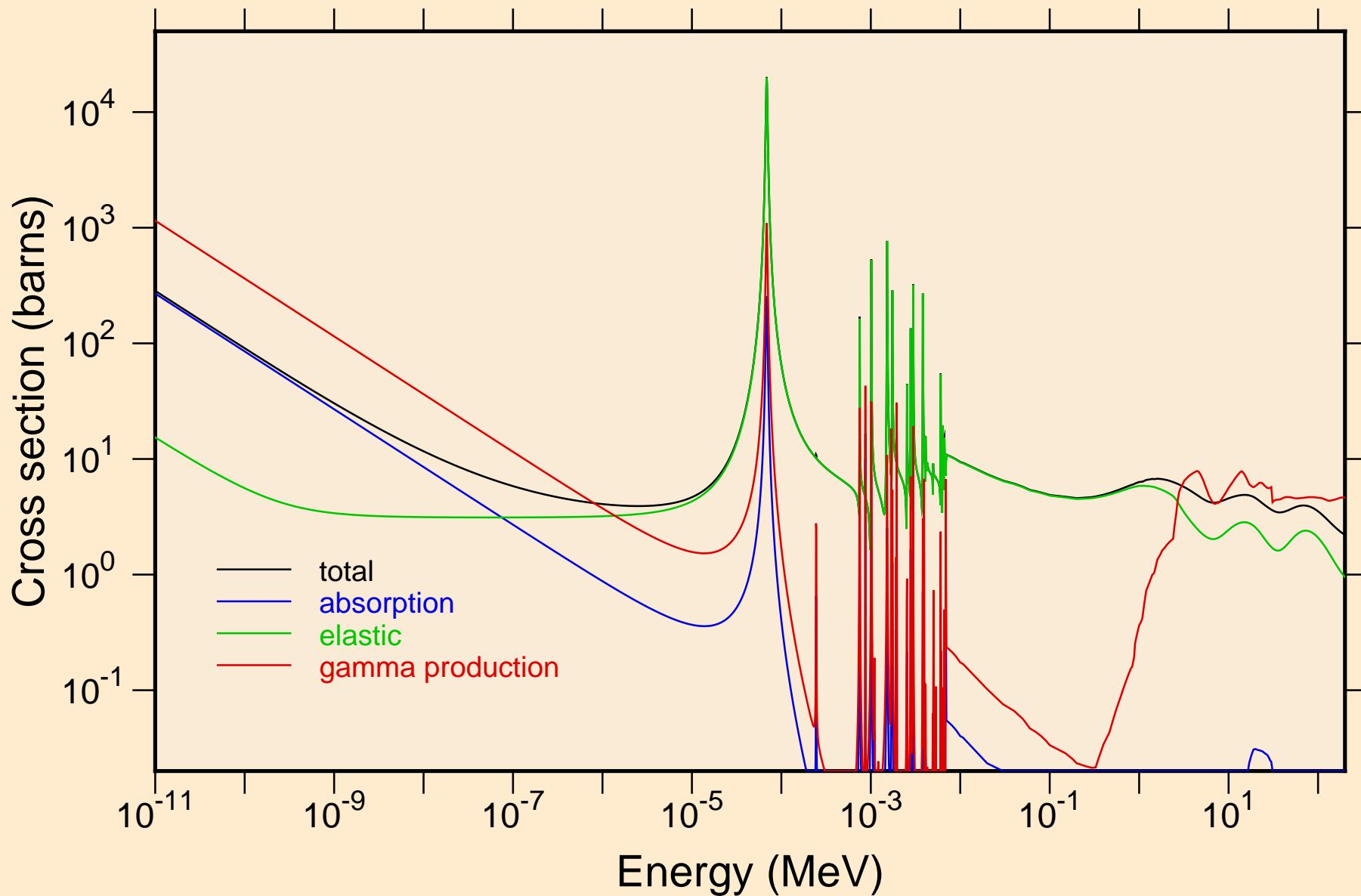
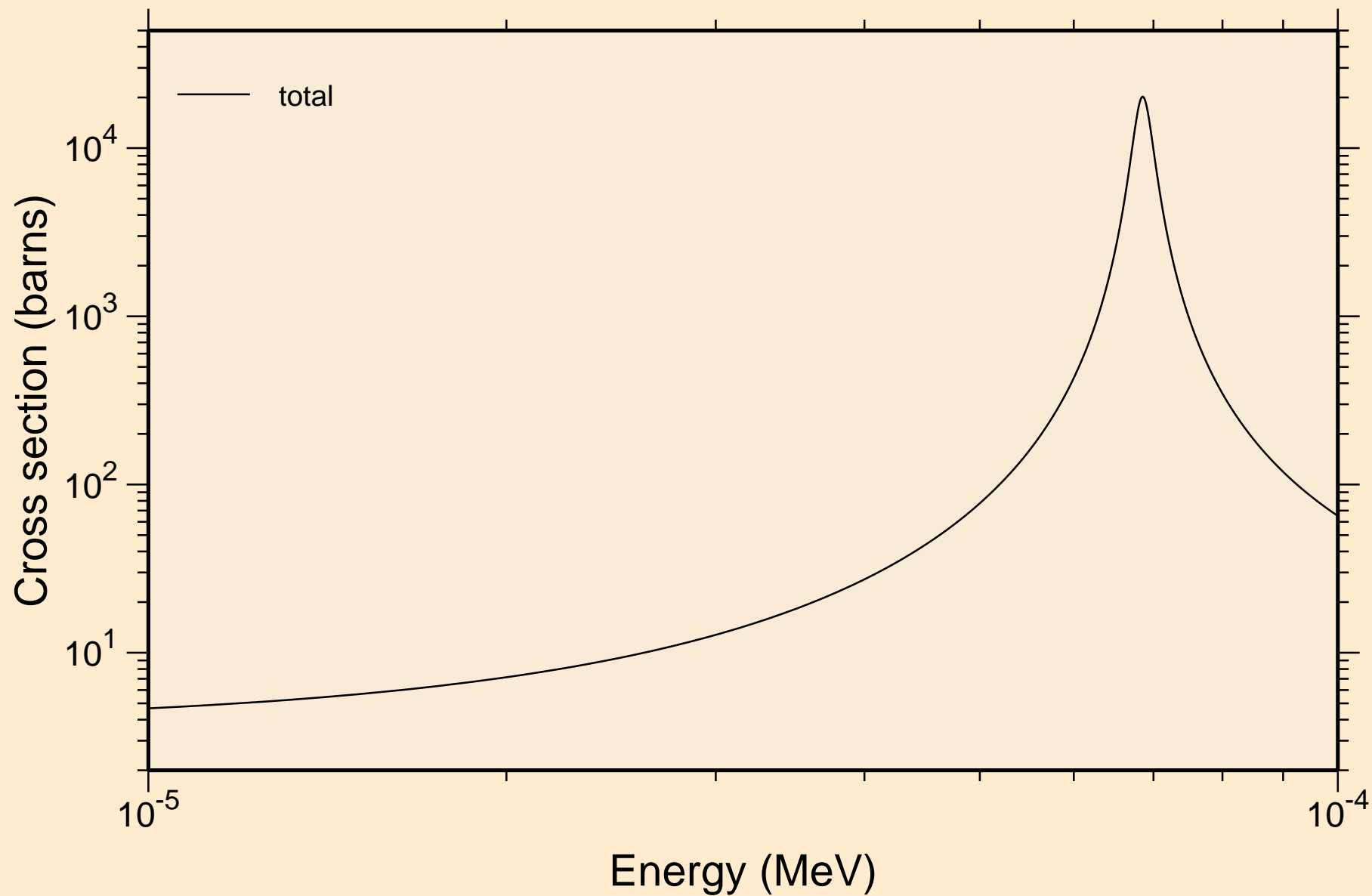


# CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

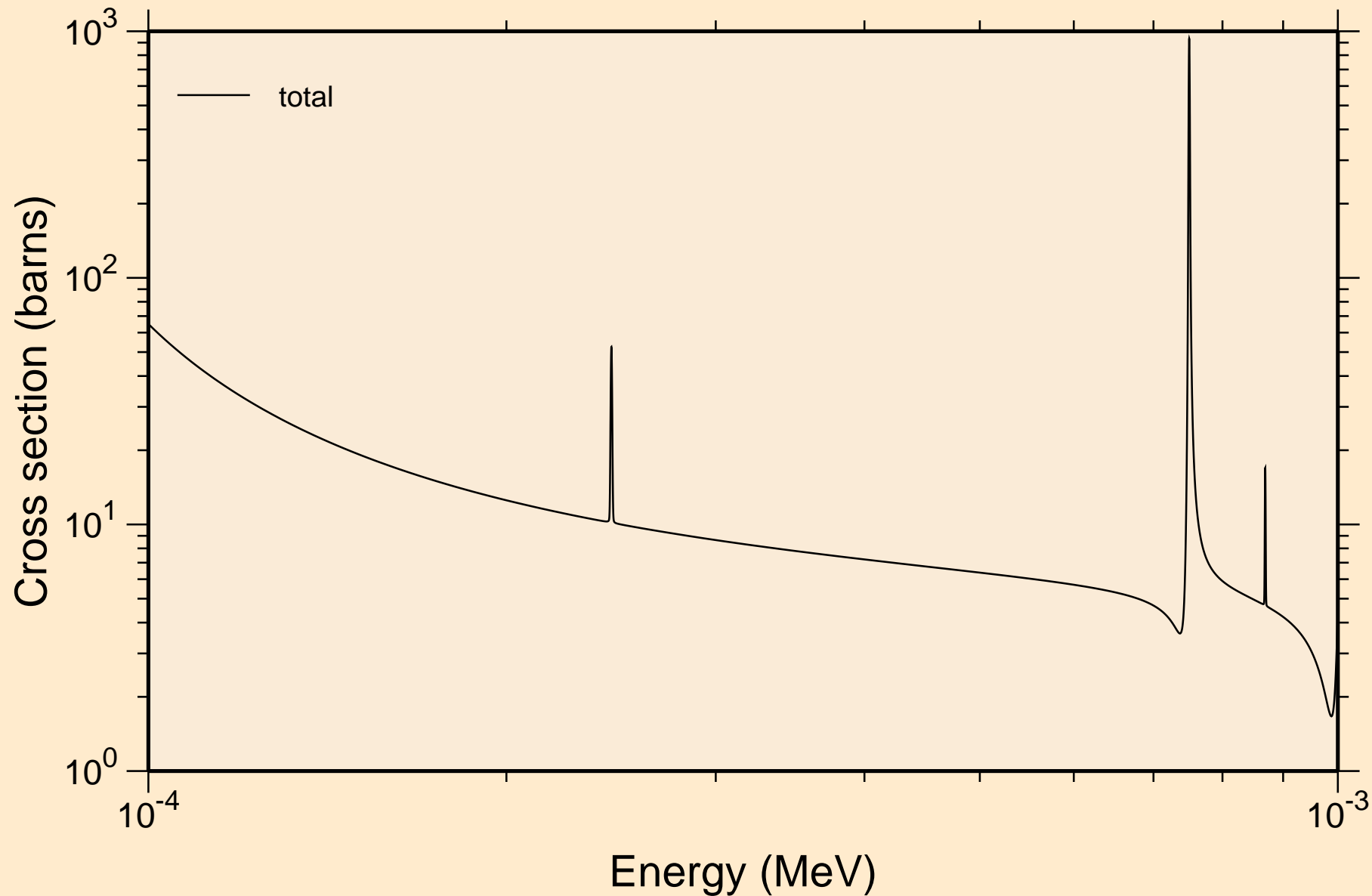
## Principal cross sections



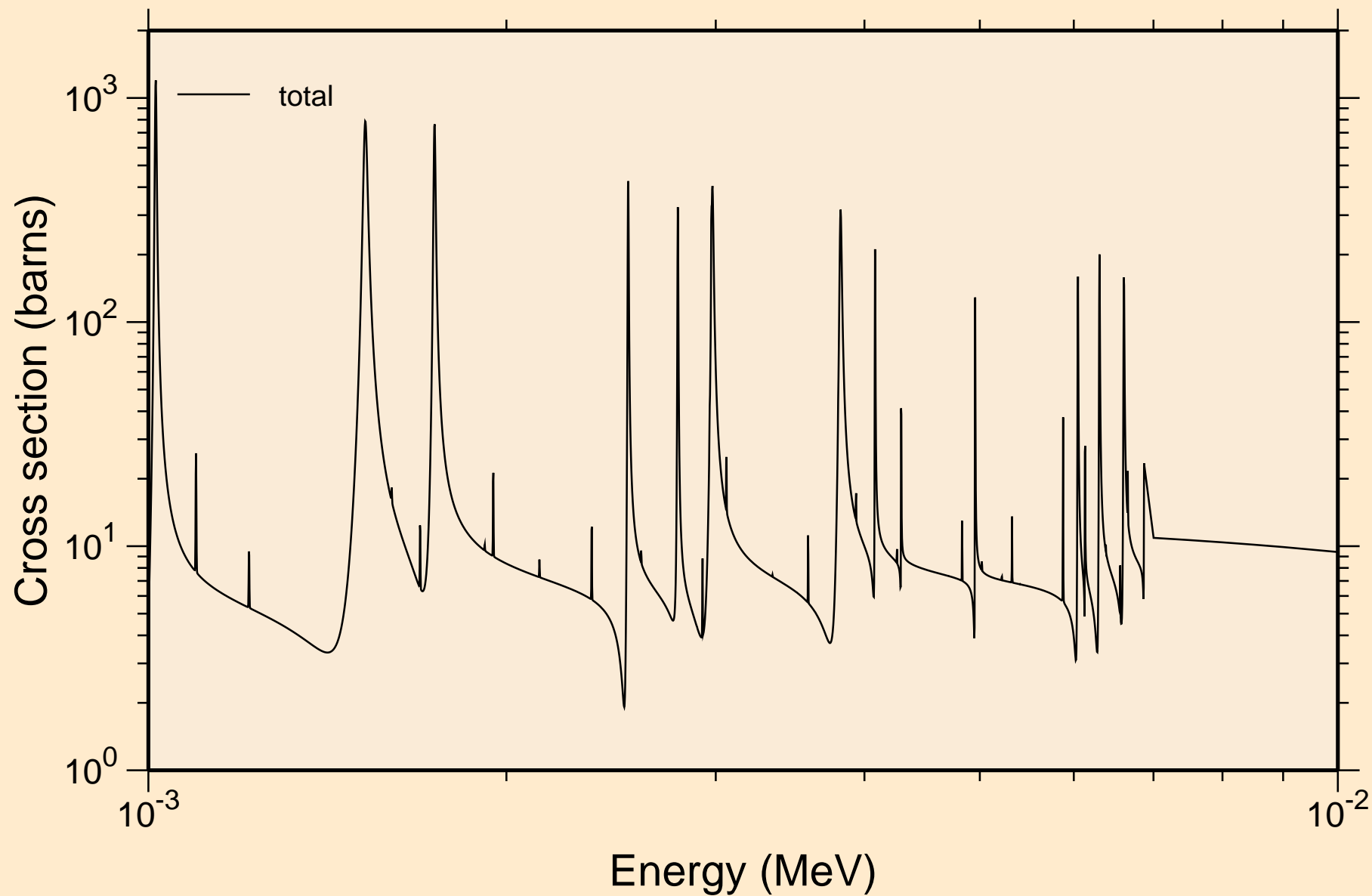
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



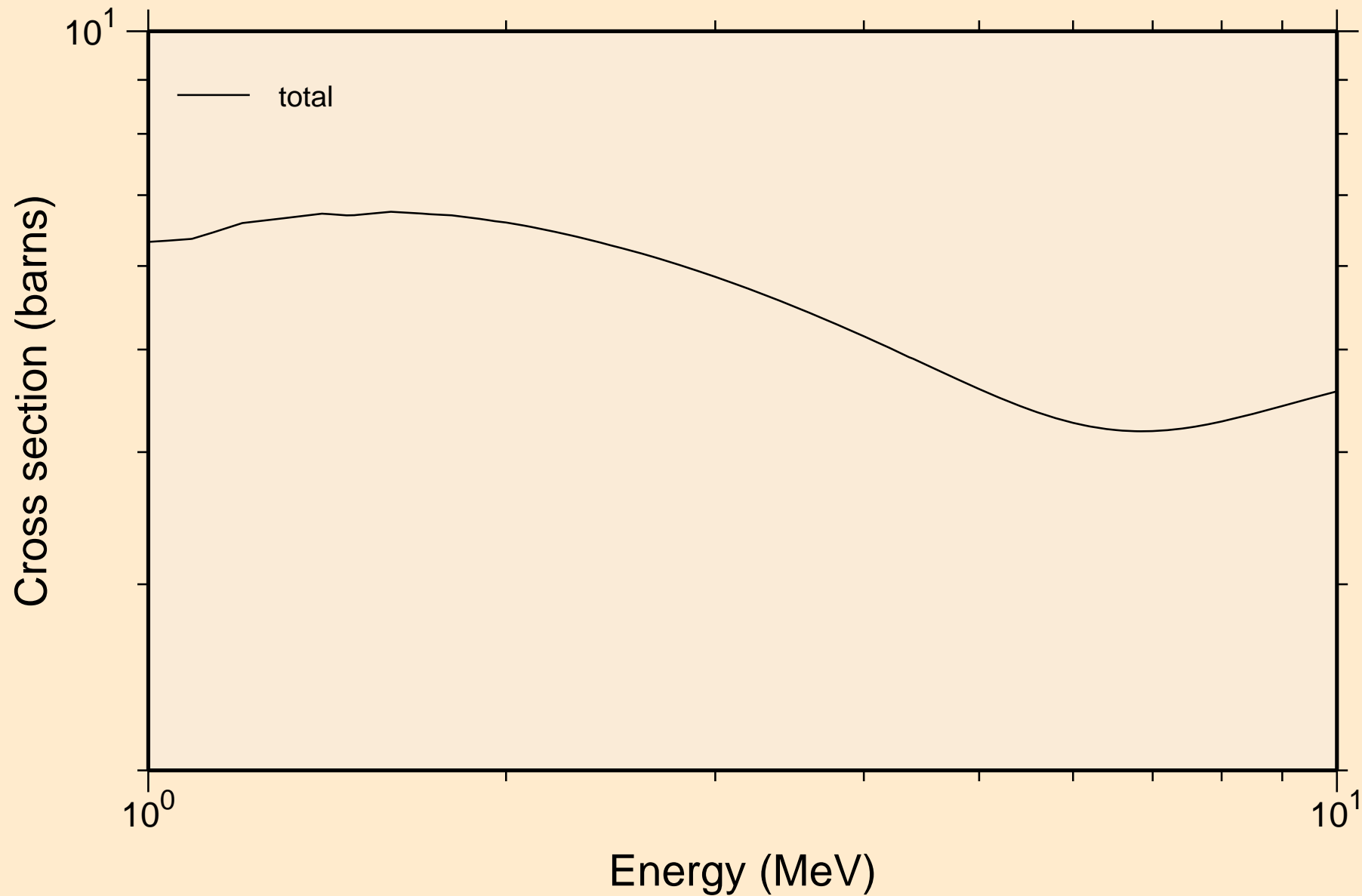
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



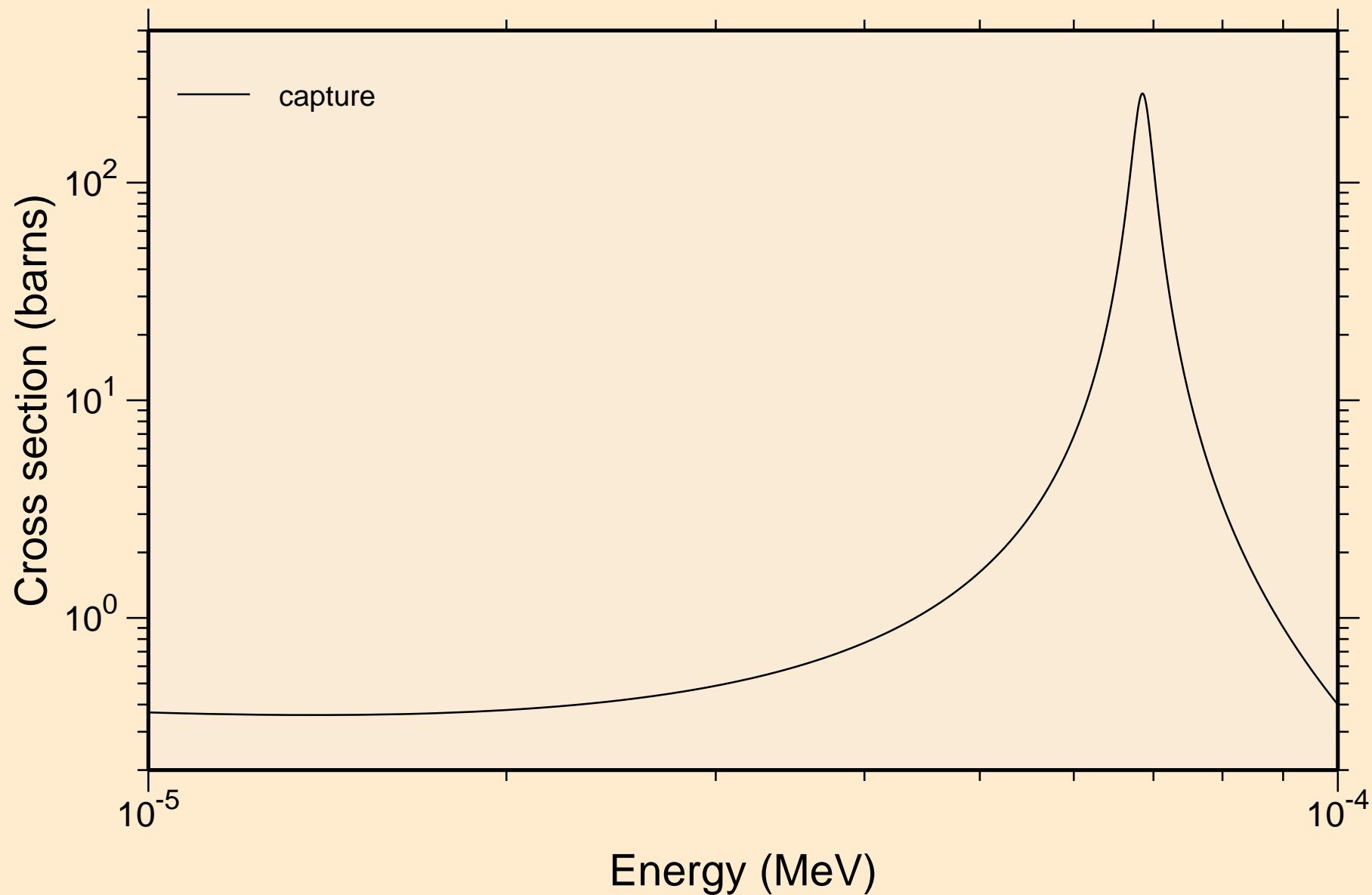
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resonance total cross section



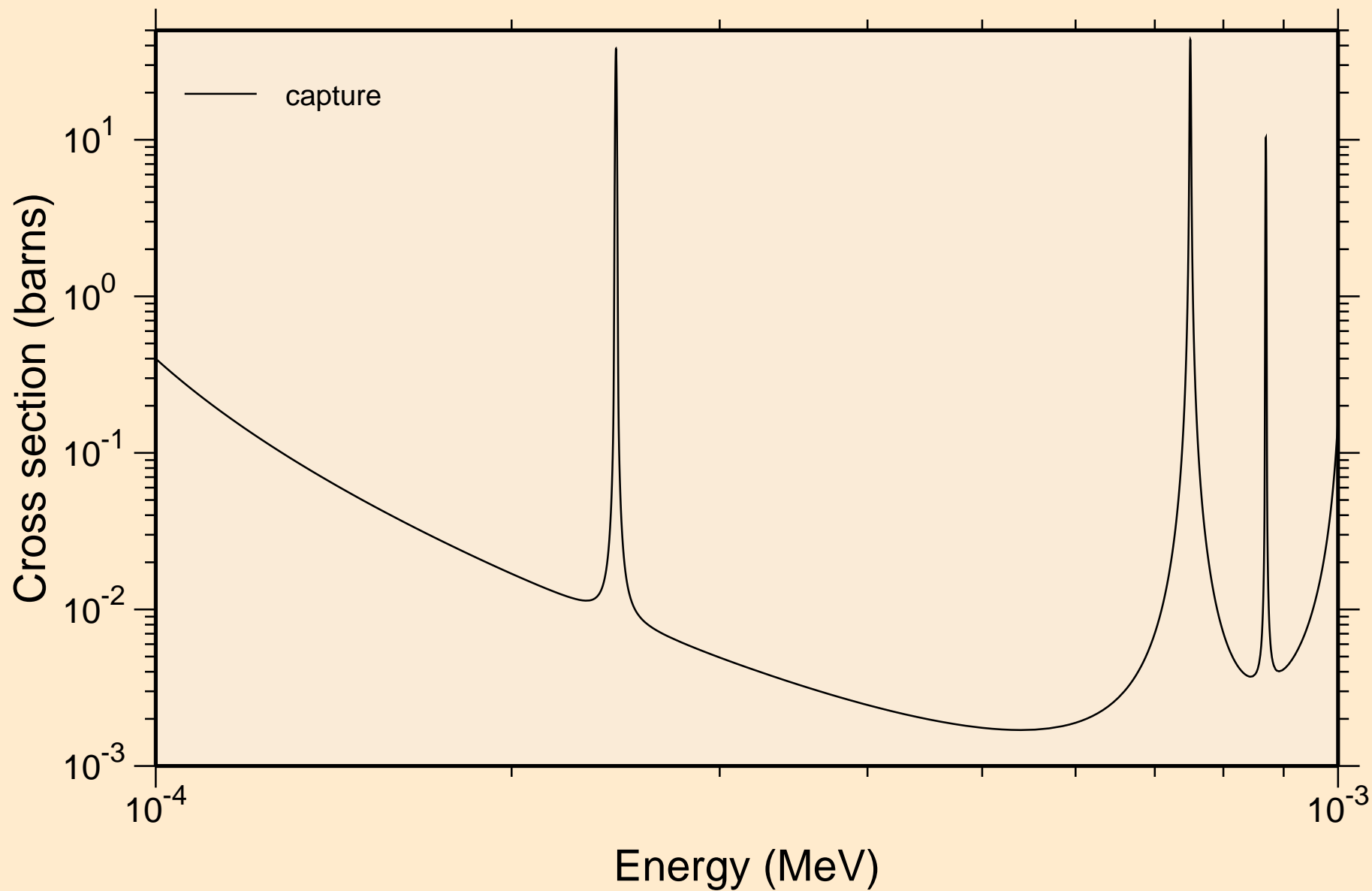
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



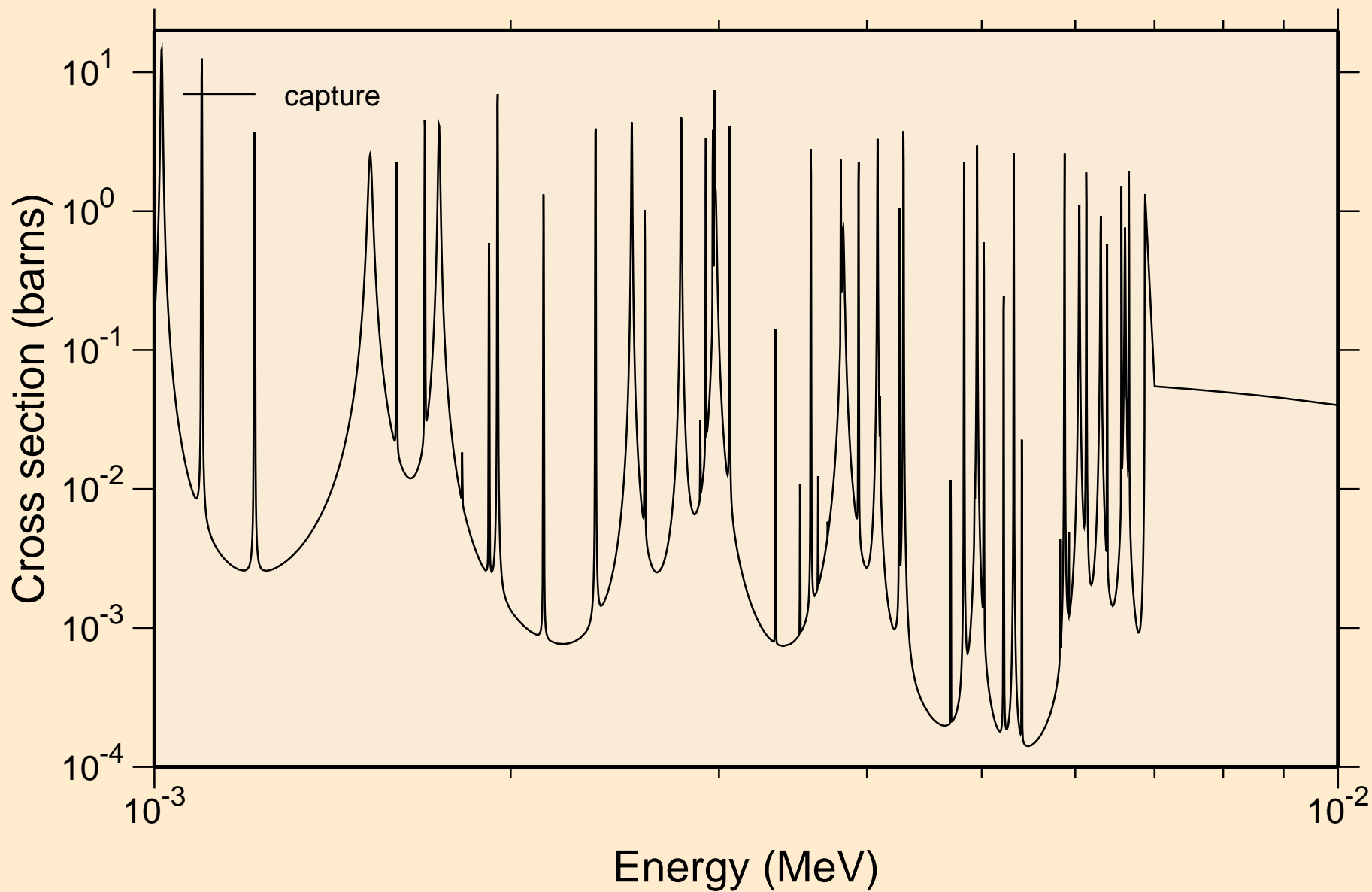
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

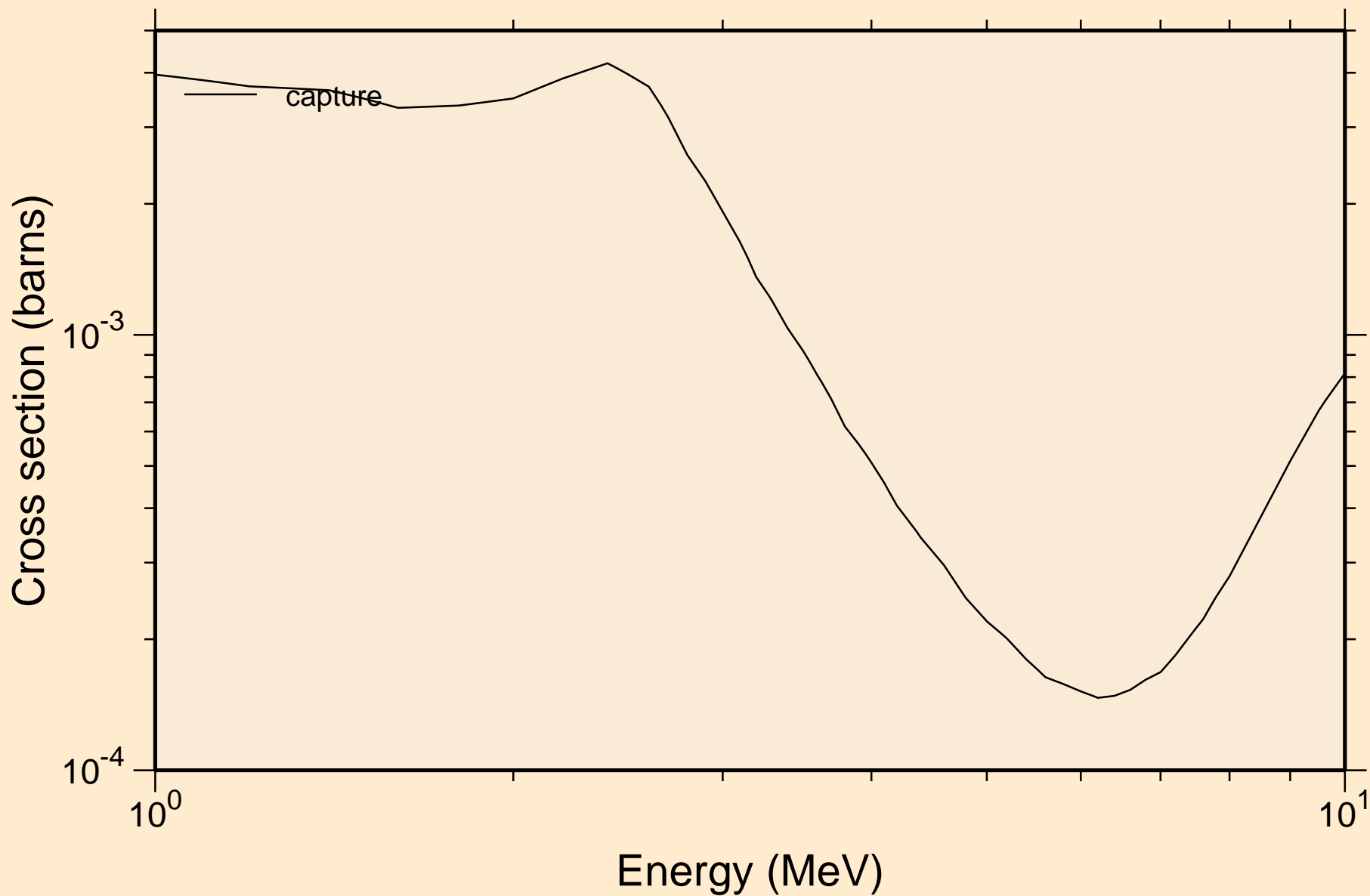


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

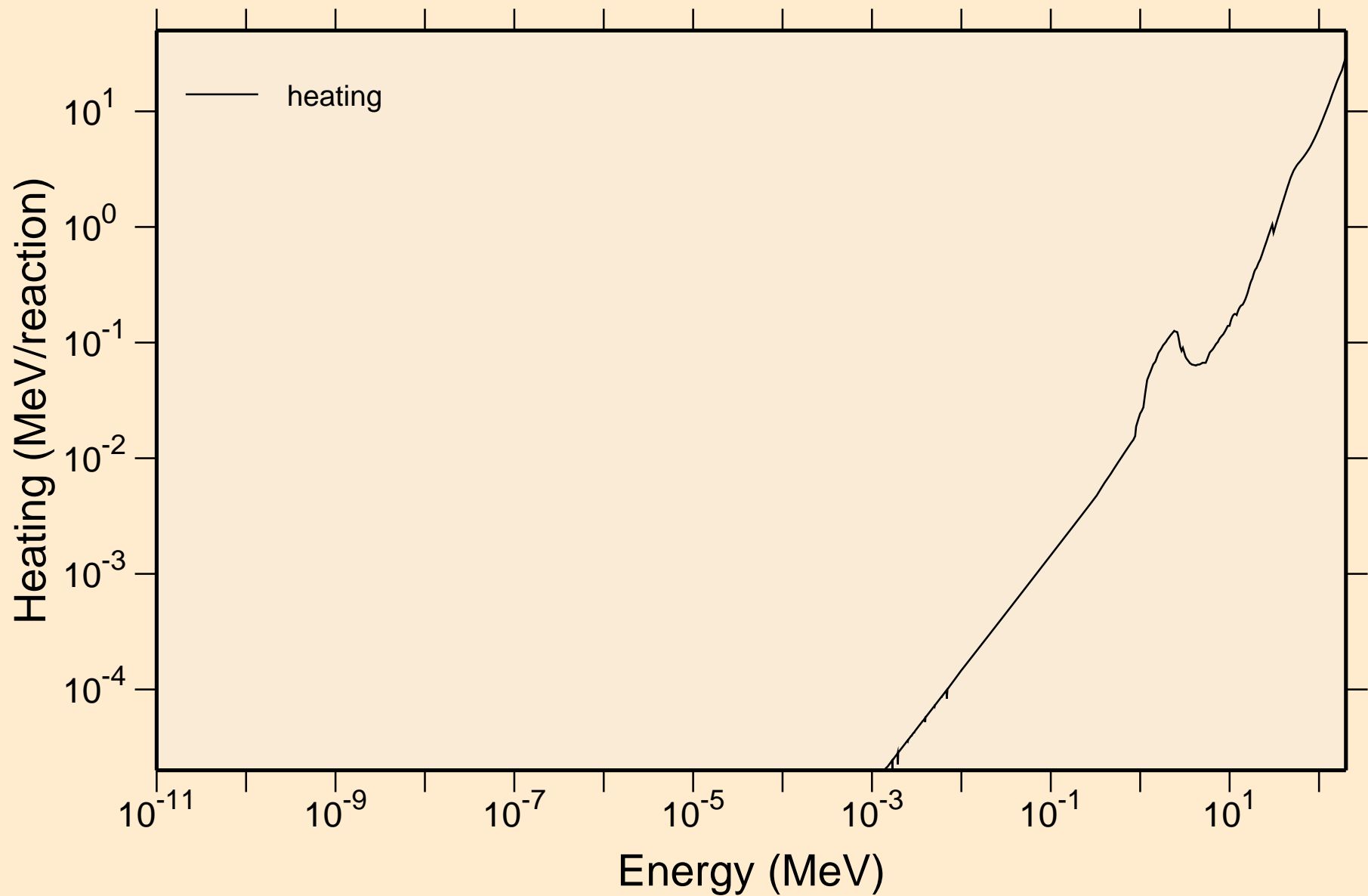




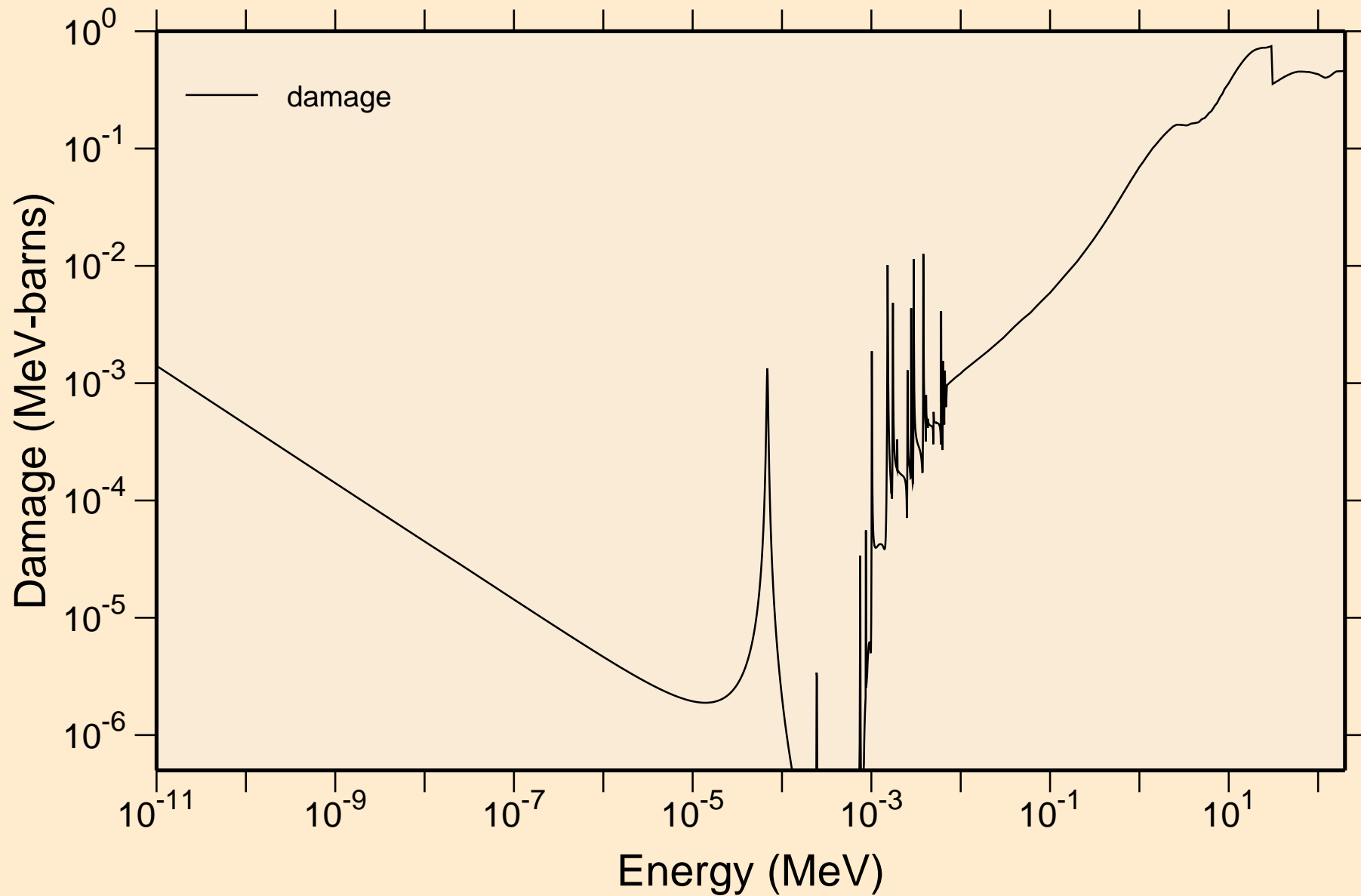
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resonance absorption cross sections



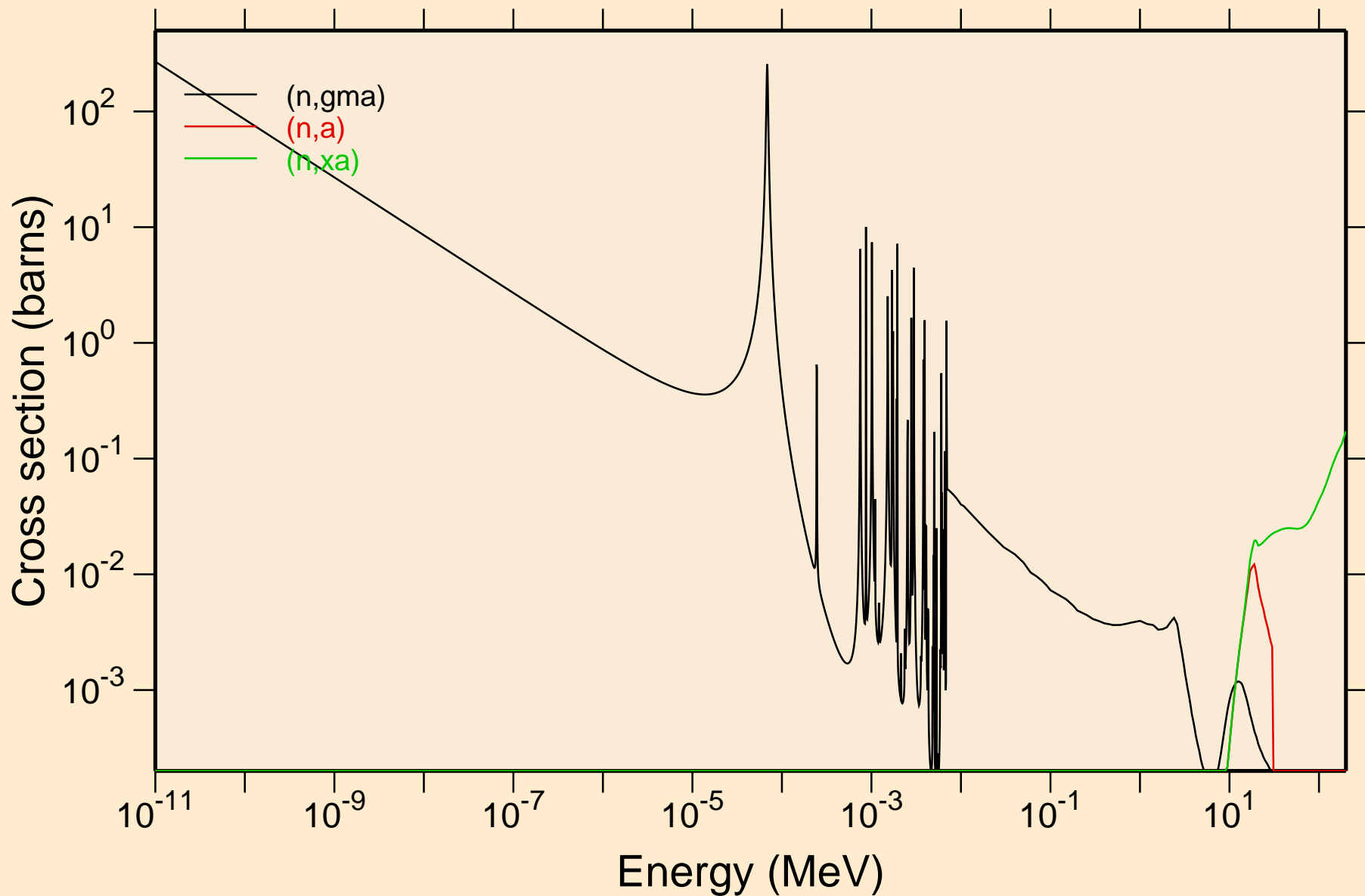
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



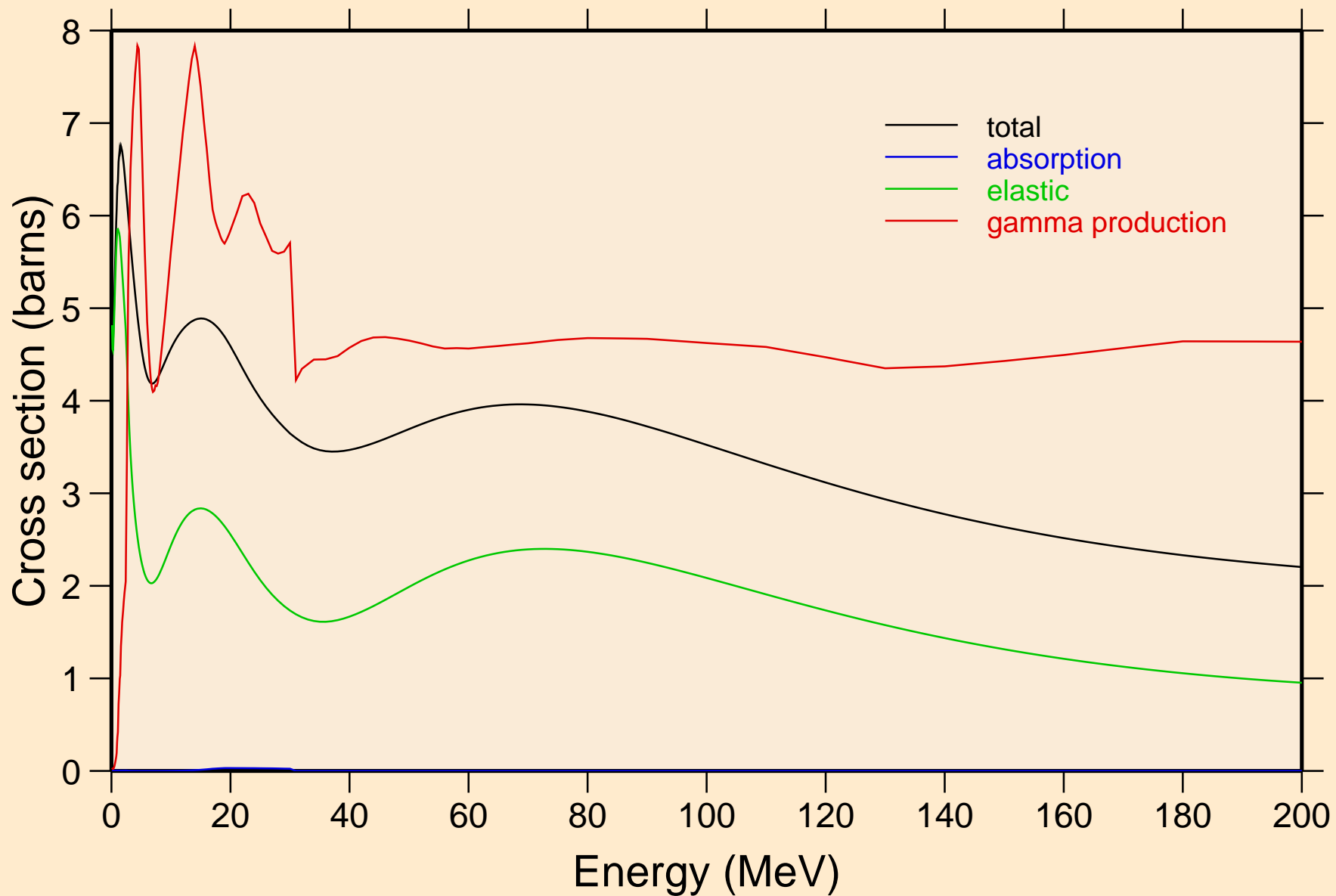
# CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



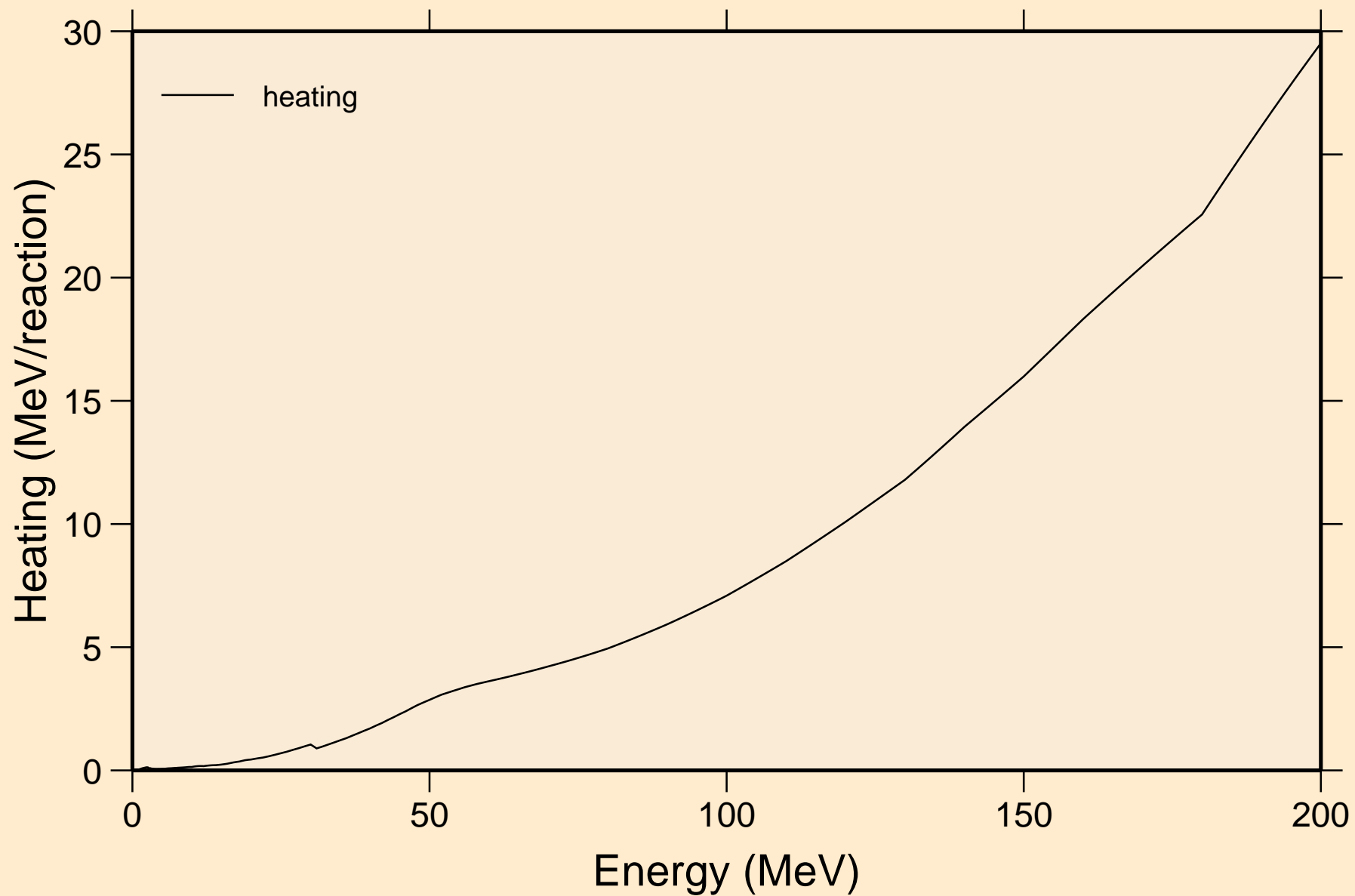
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Non-threshold reactions



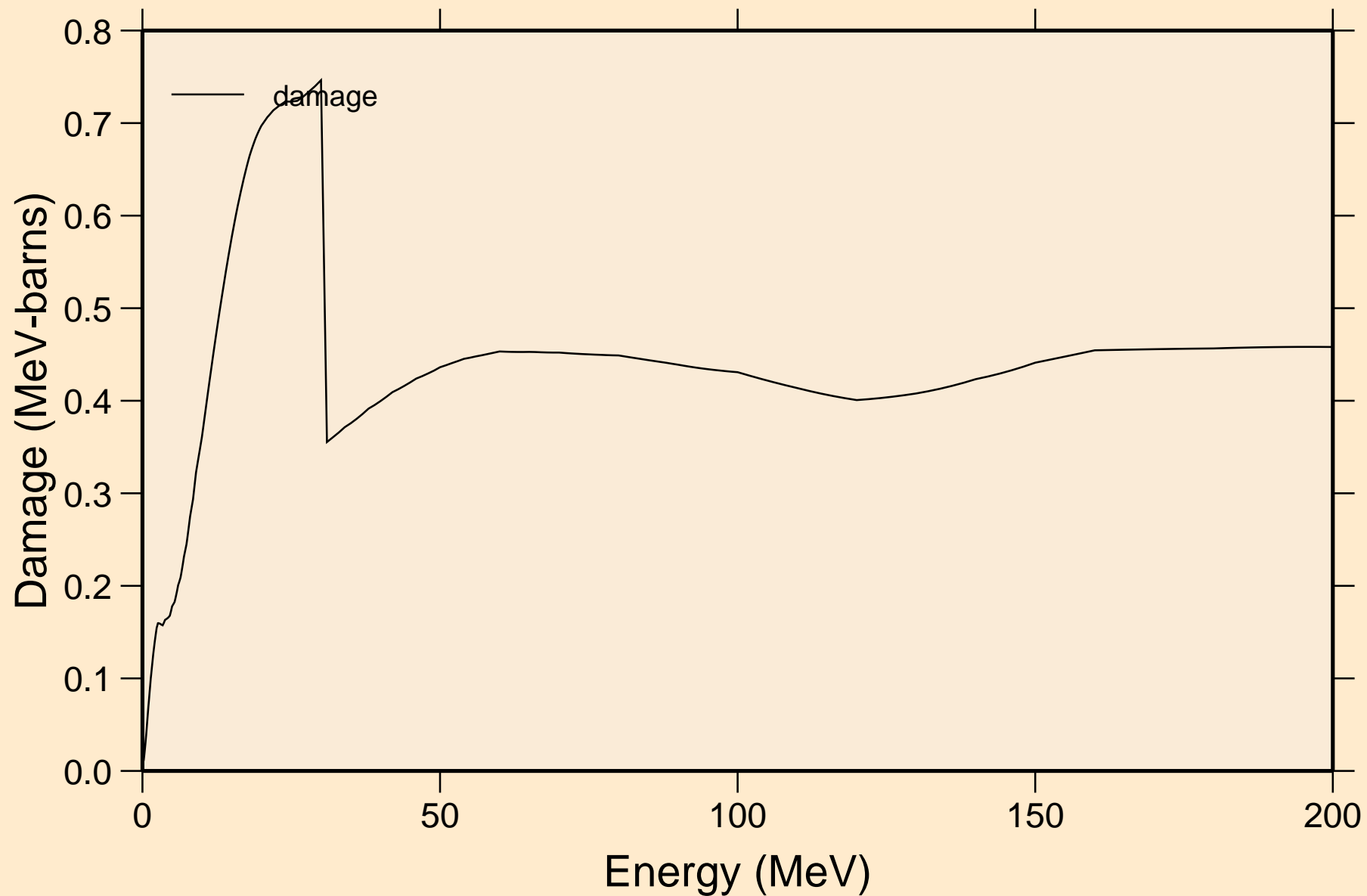
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Principal cross sections



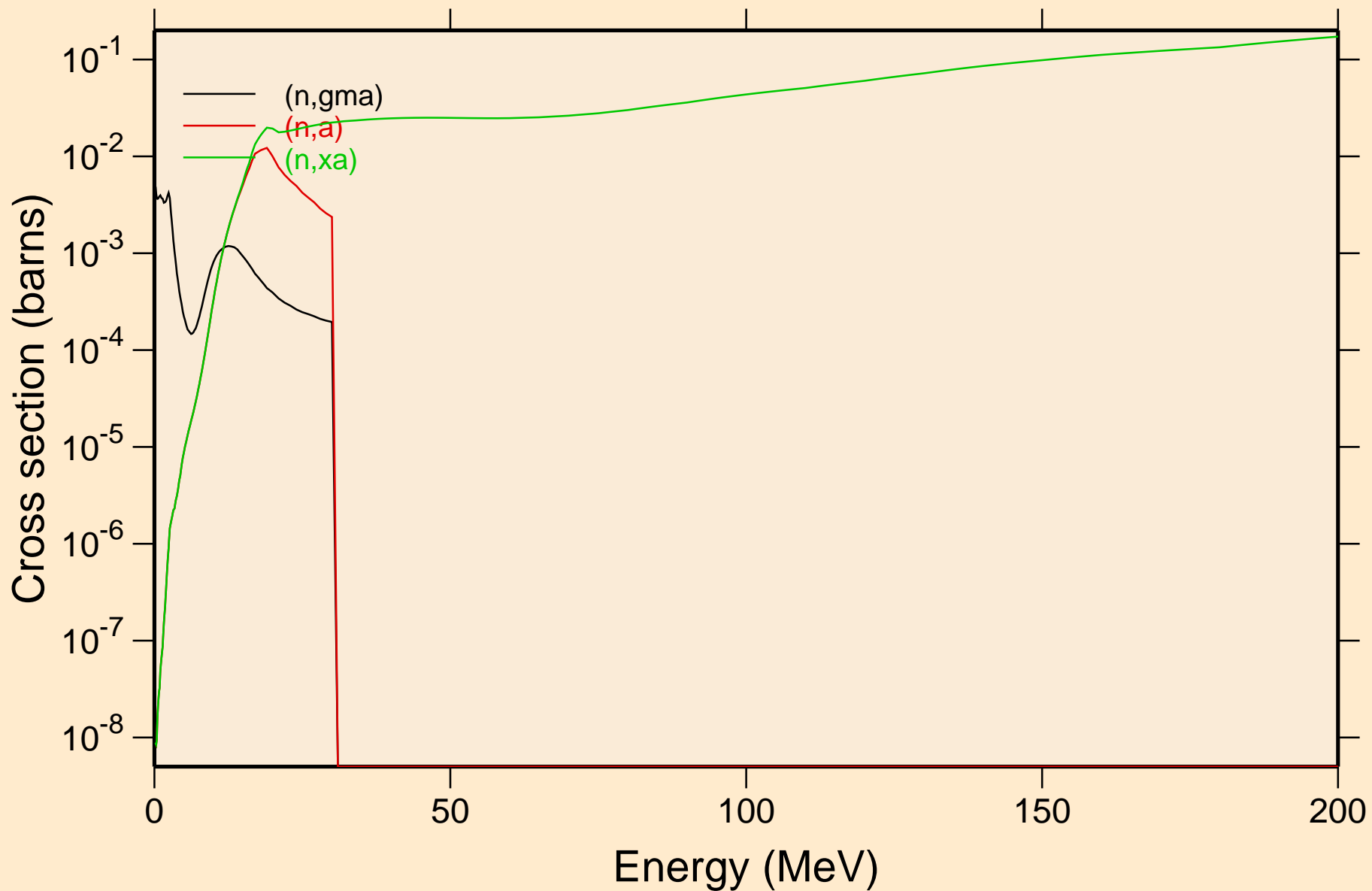
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

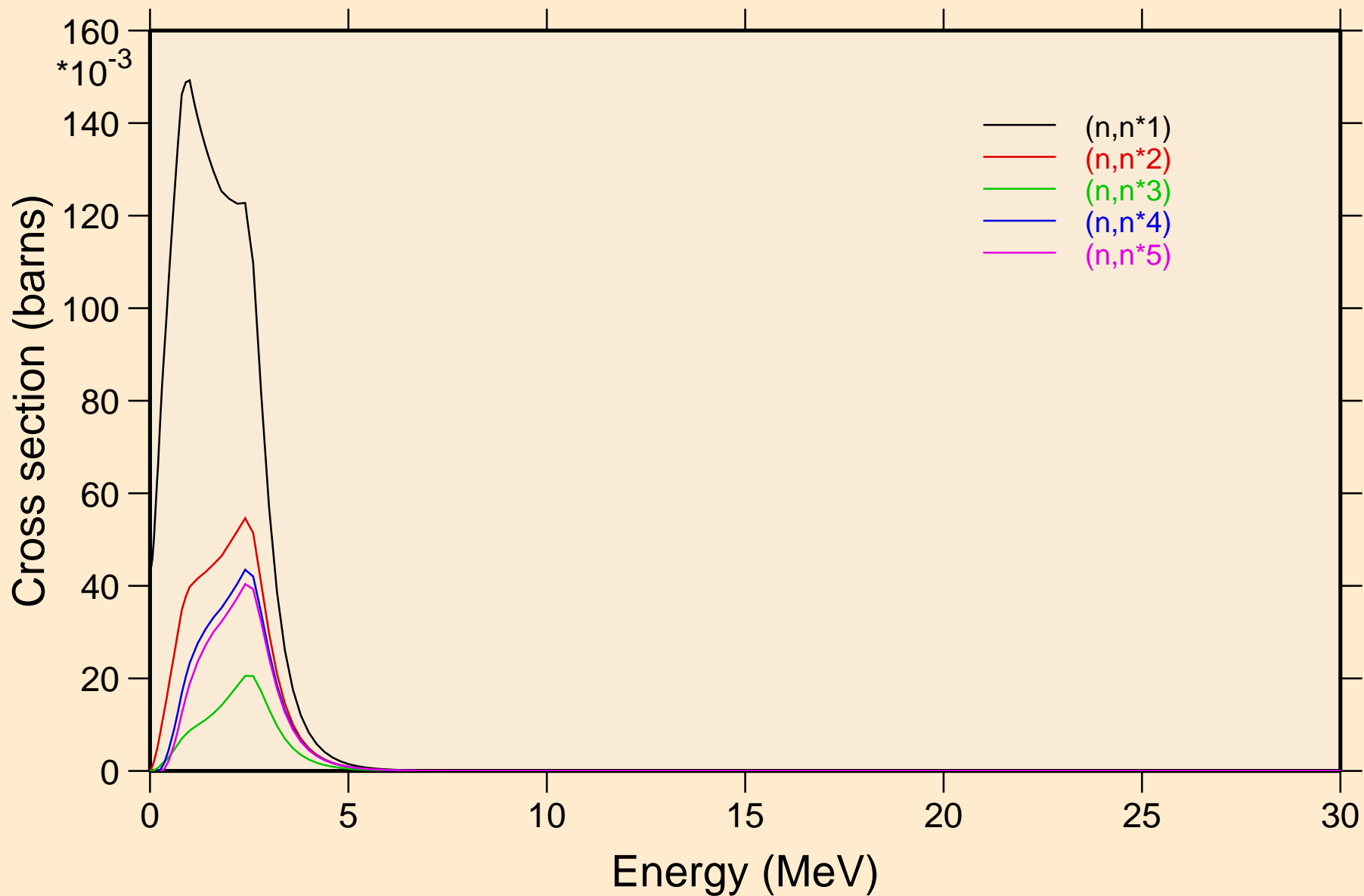


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

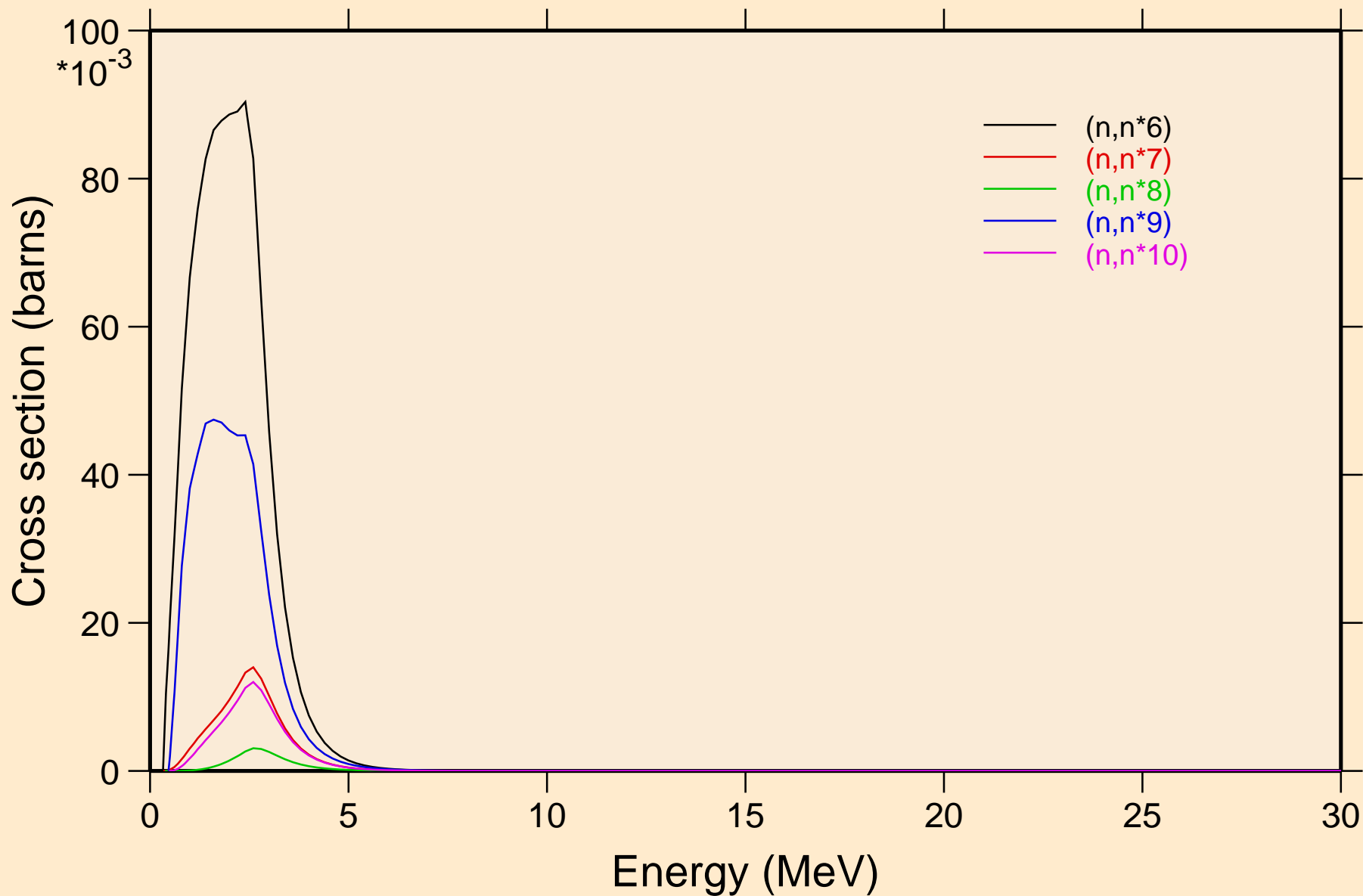




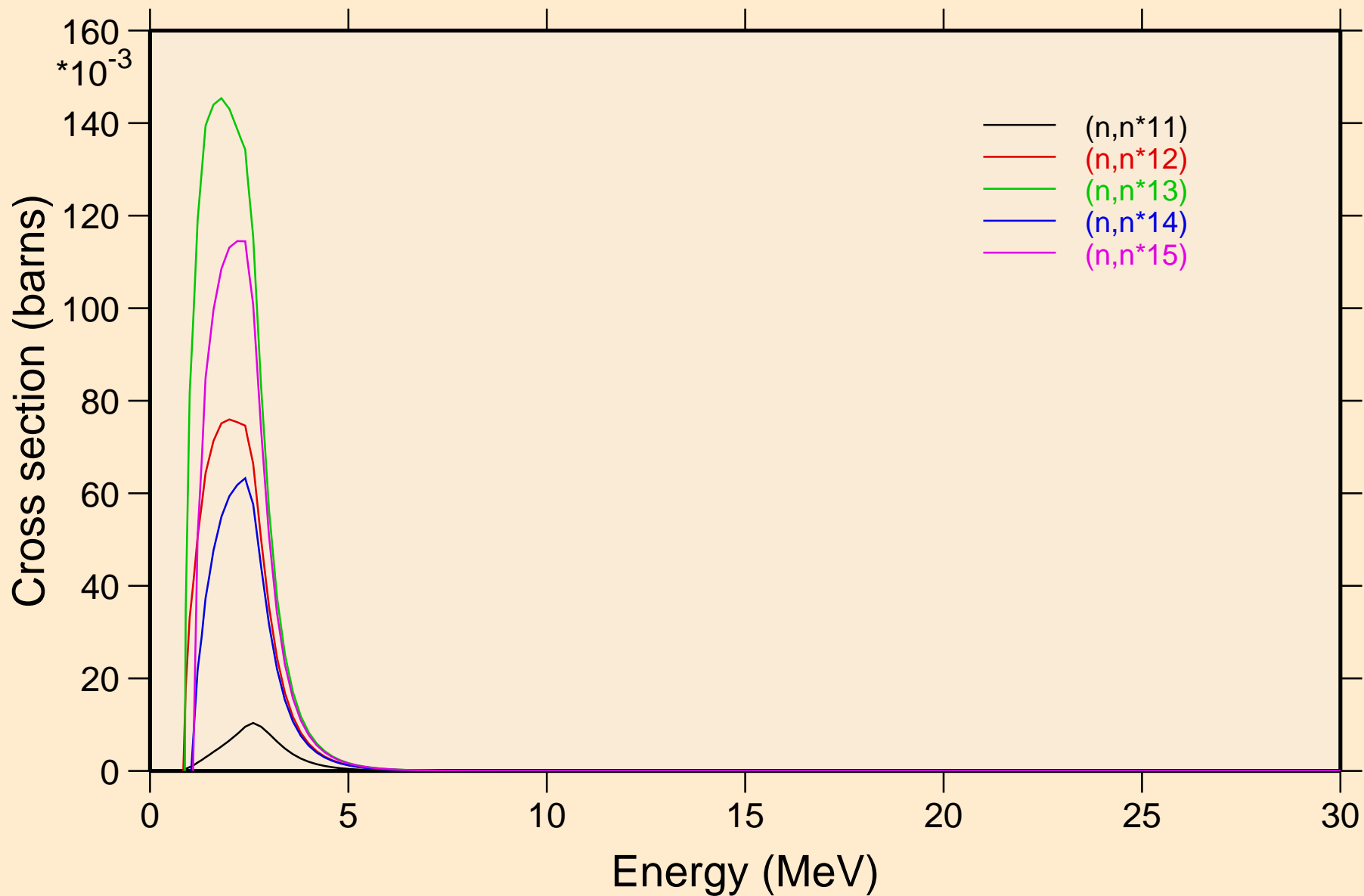
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

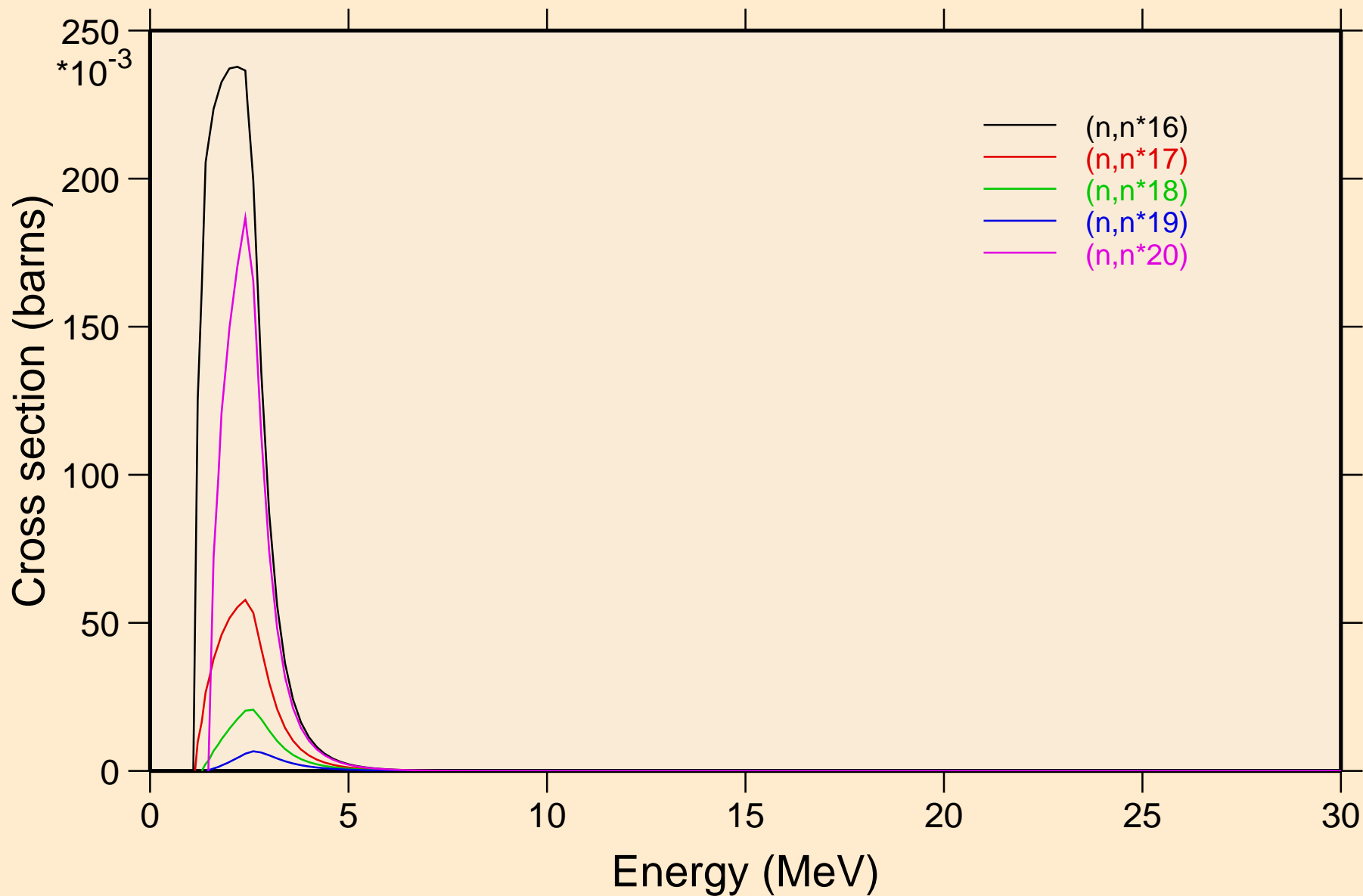


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

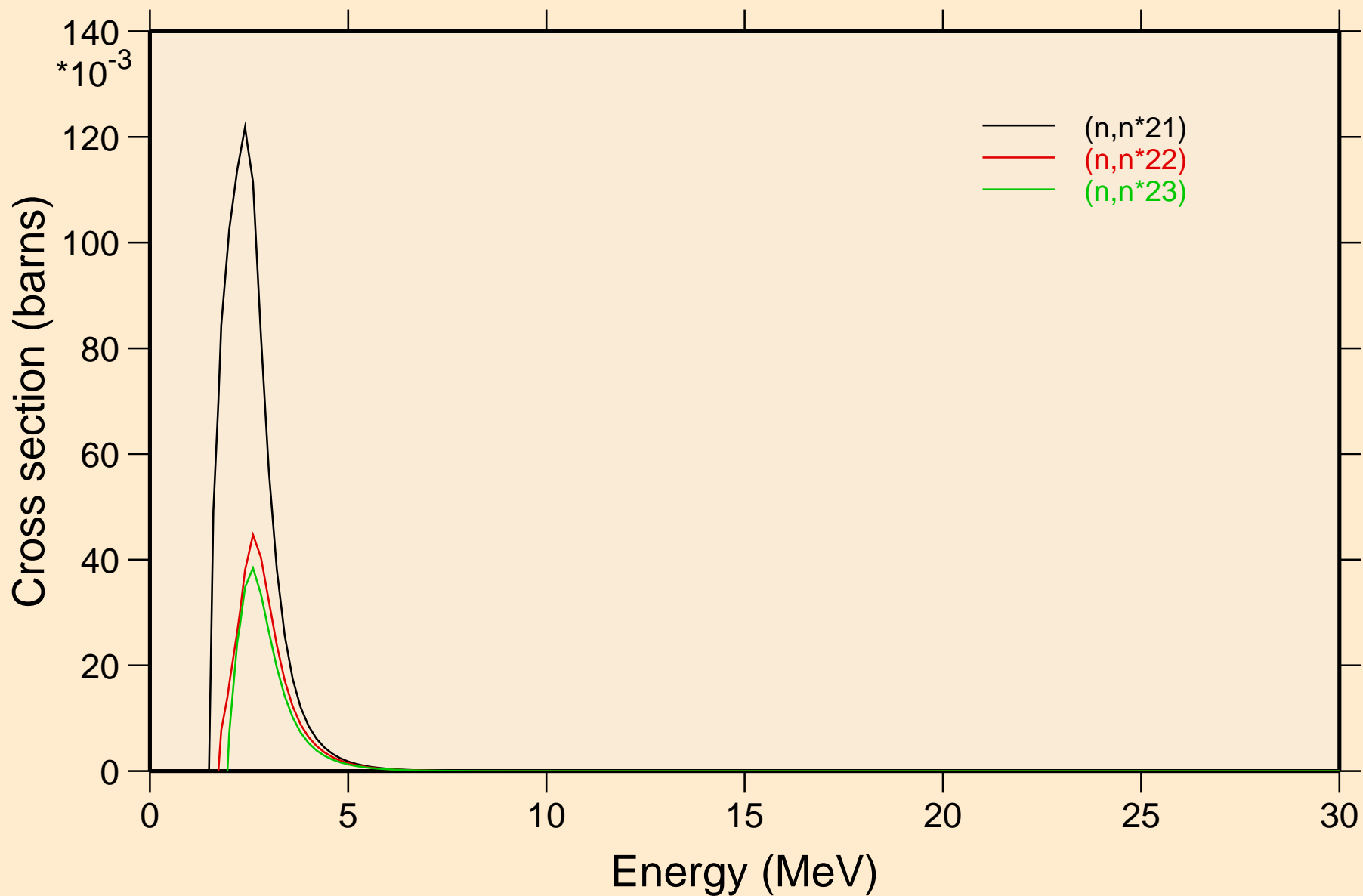


# CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Inelastic levels

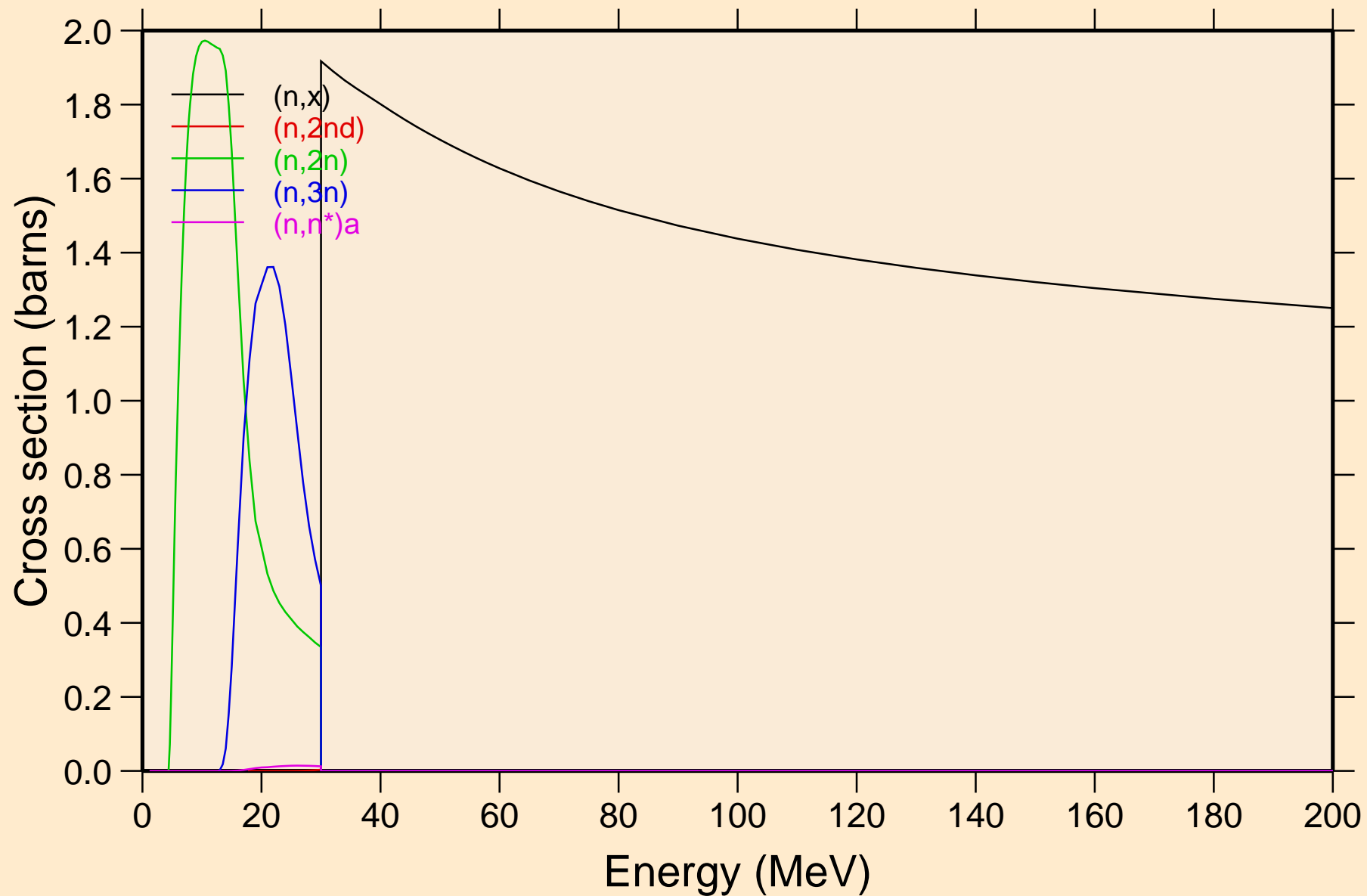


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

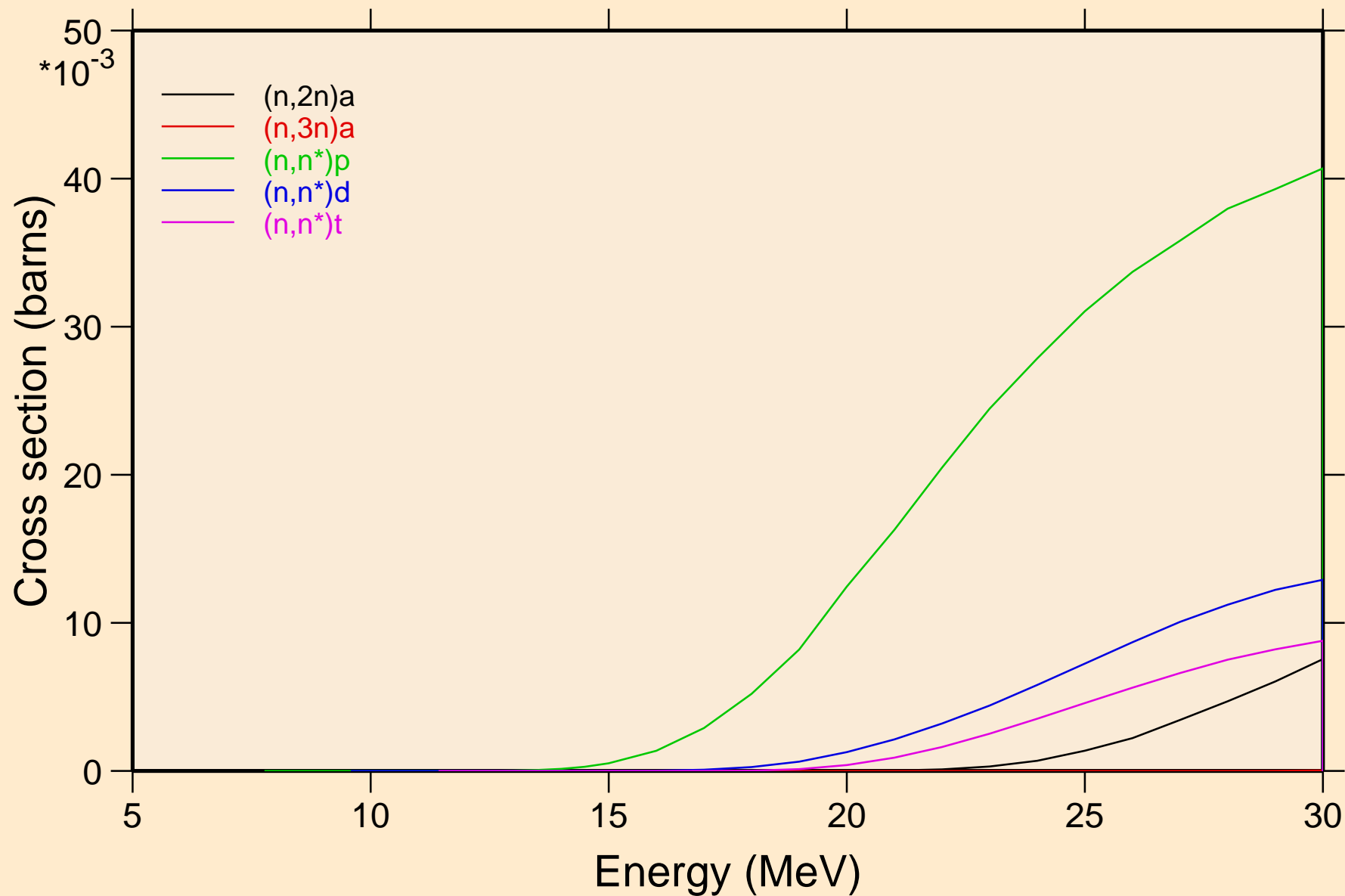


# CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

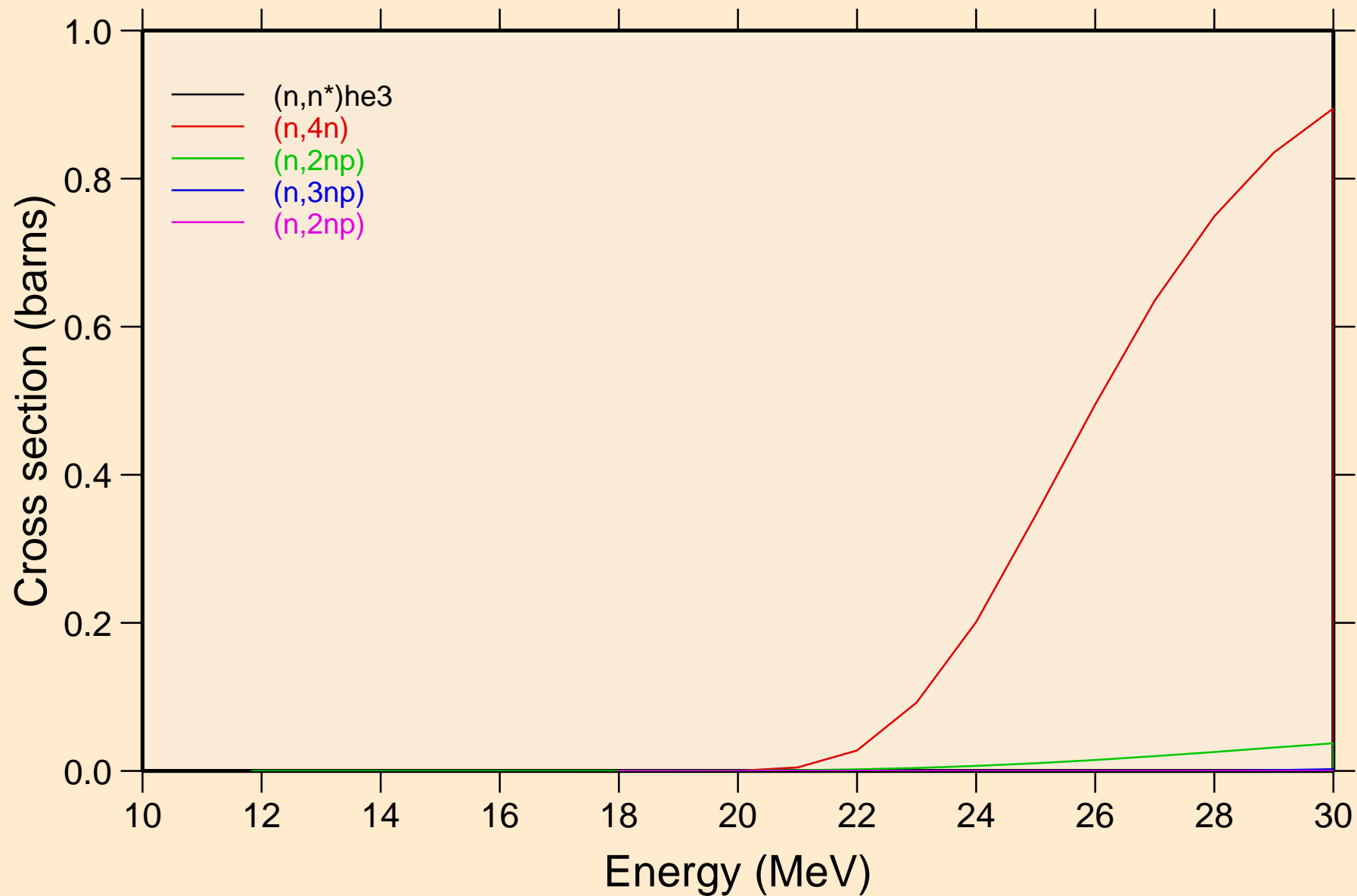
## Threshold reactions



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

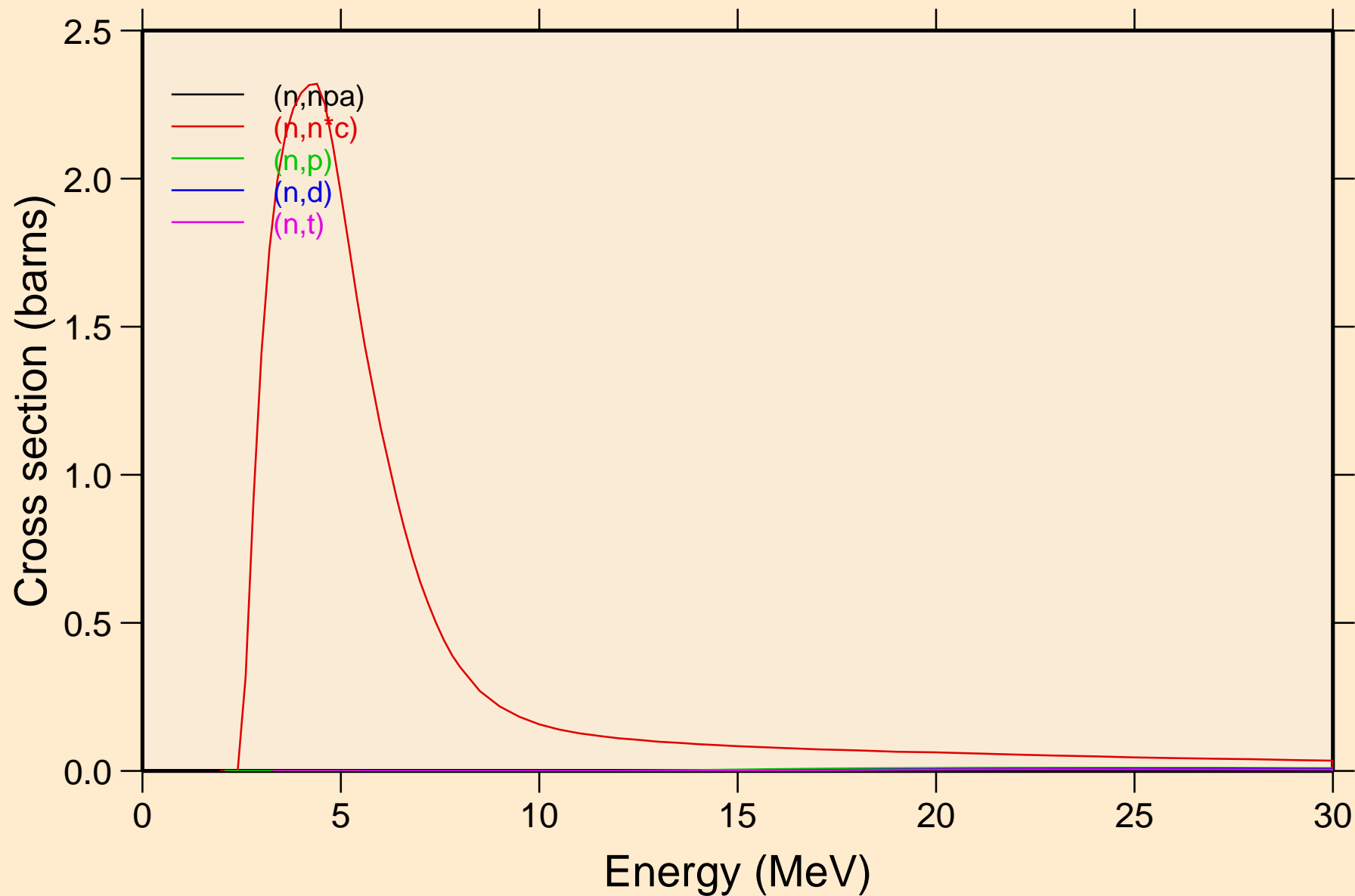


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Threshold reactions

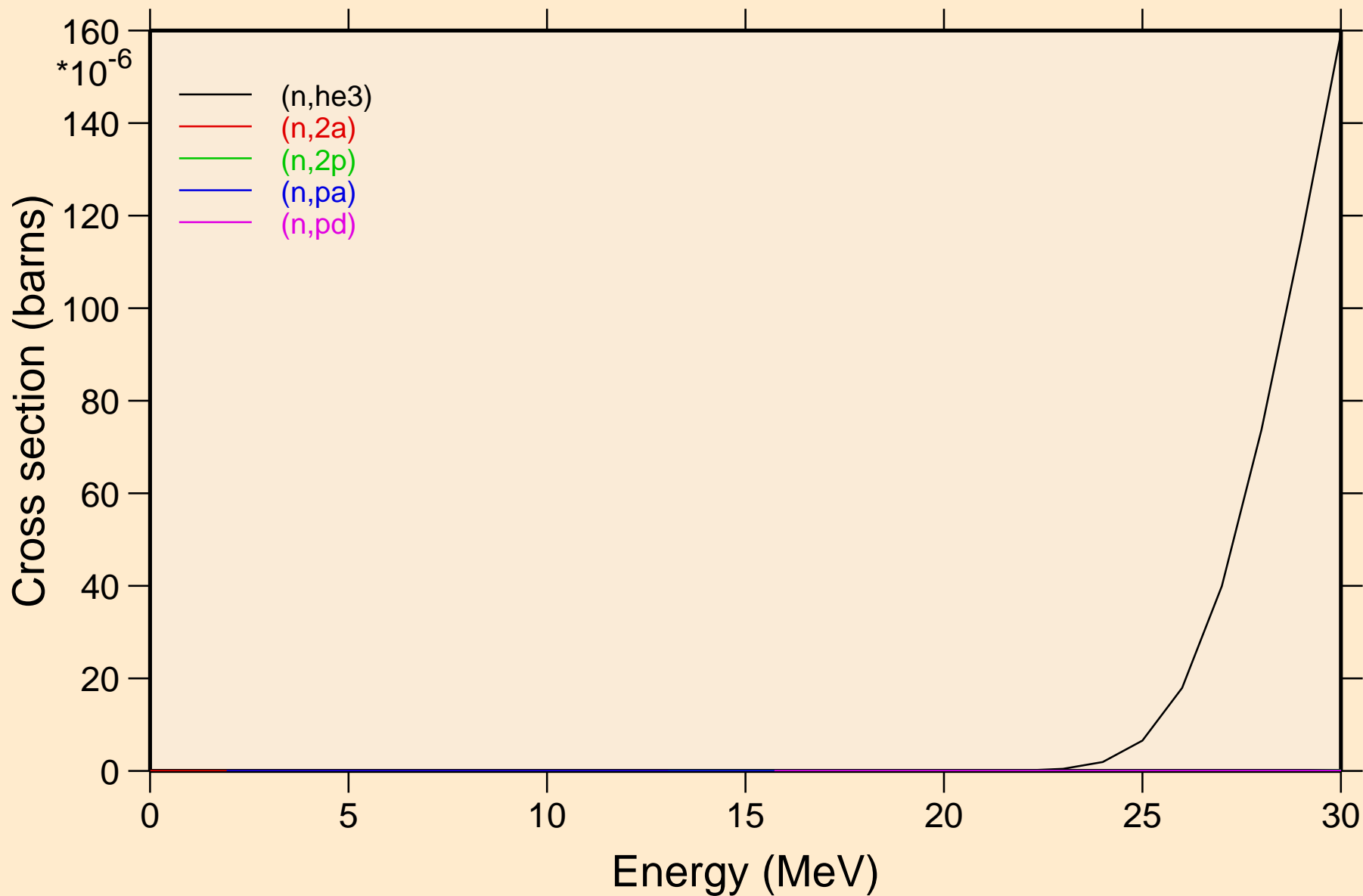




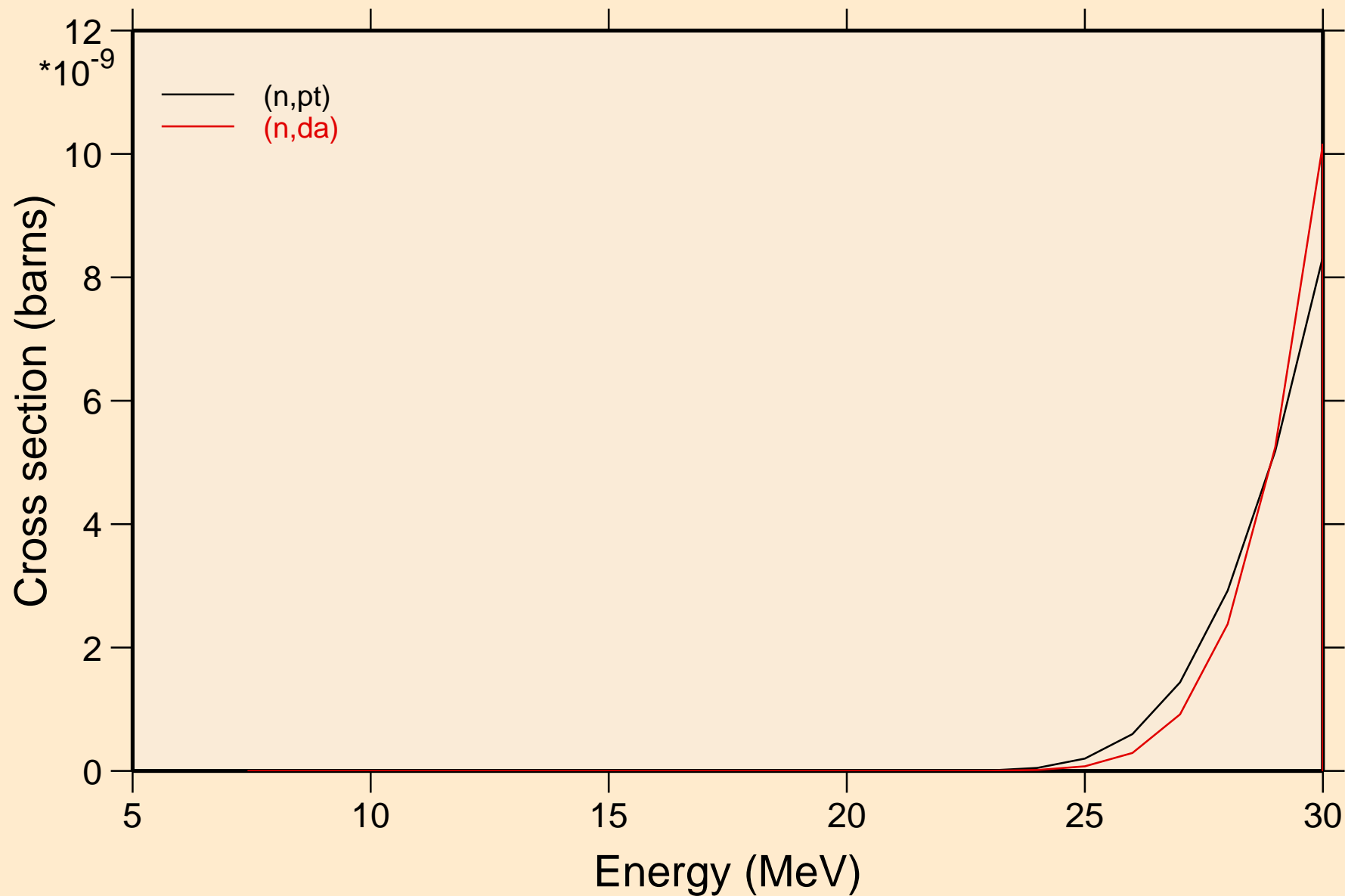
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Threshold reactions



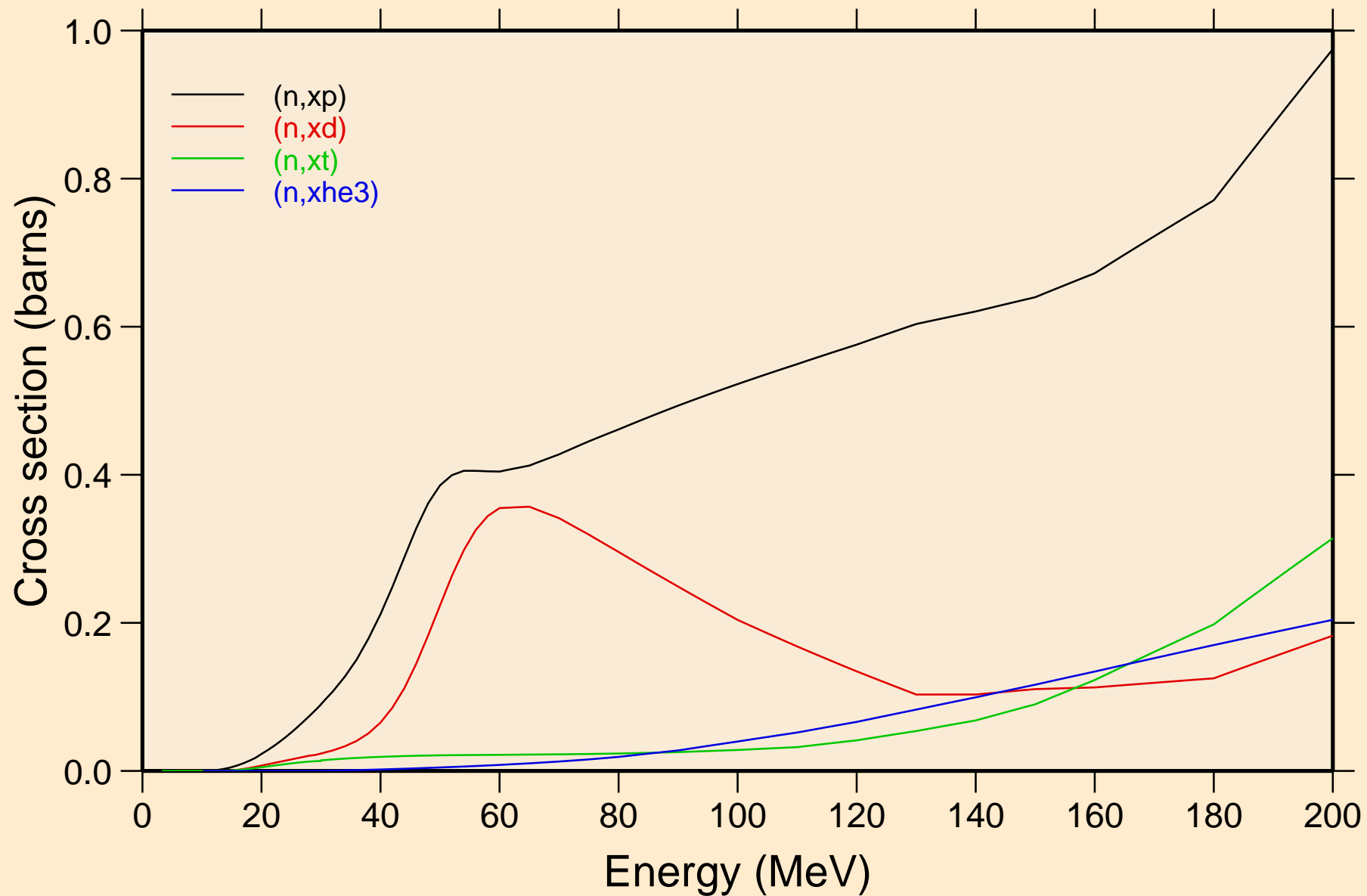
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Threshold reactions



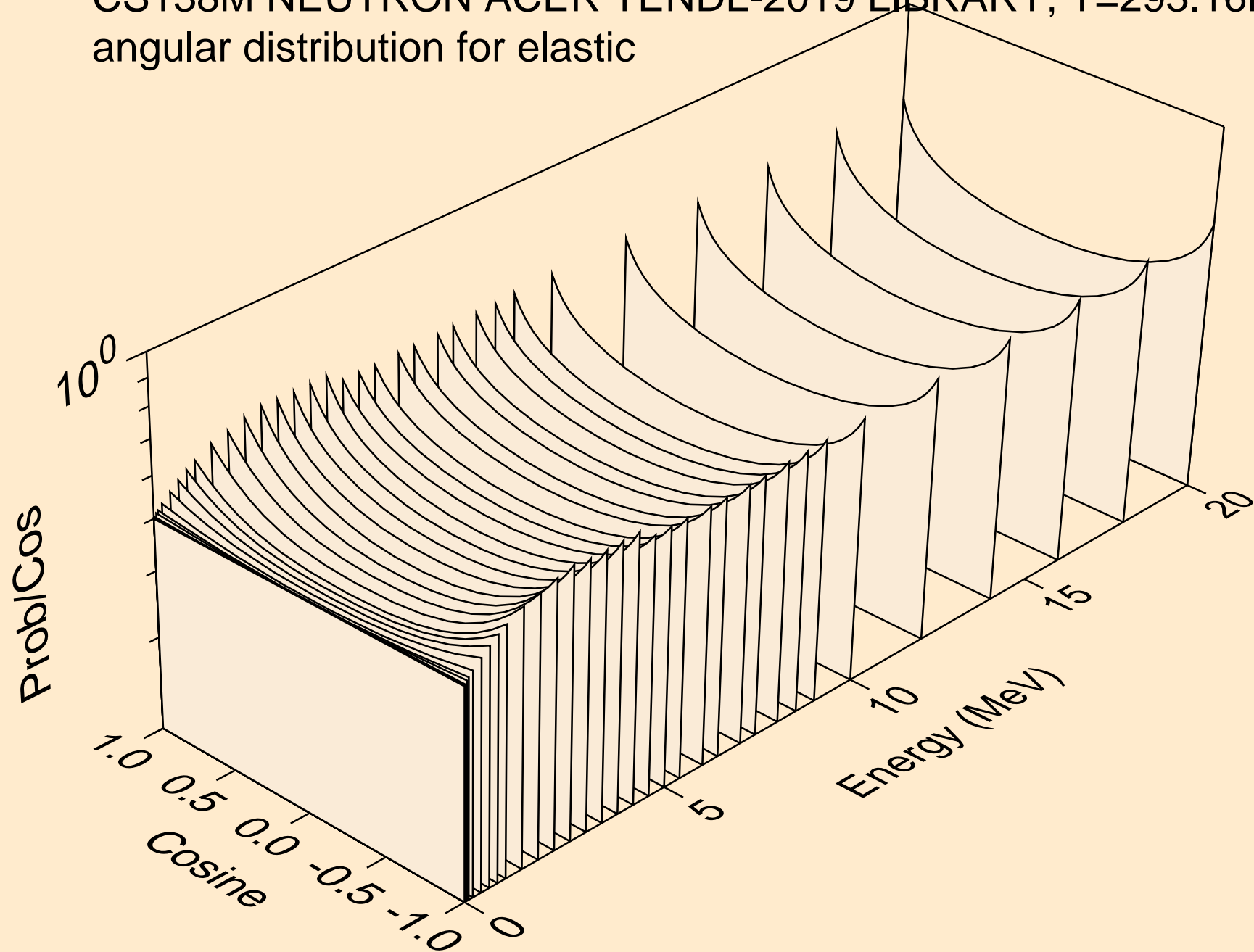
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Threshold reactions



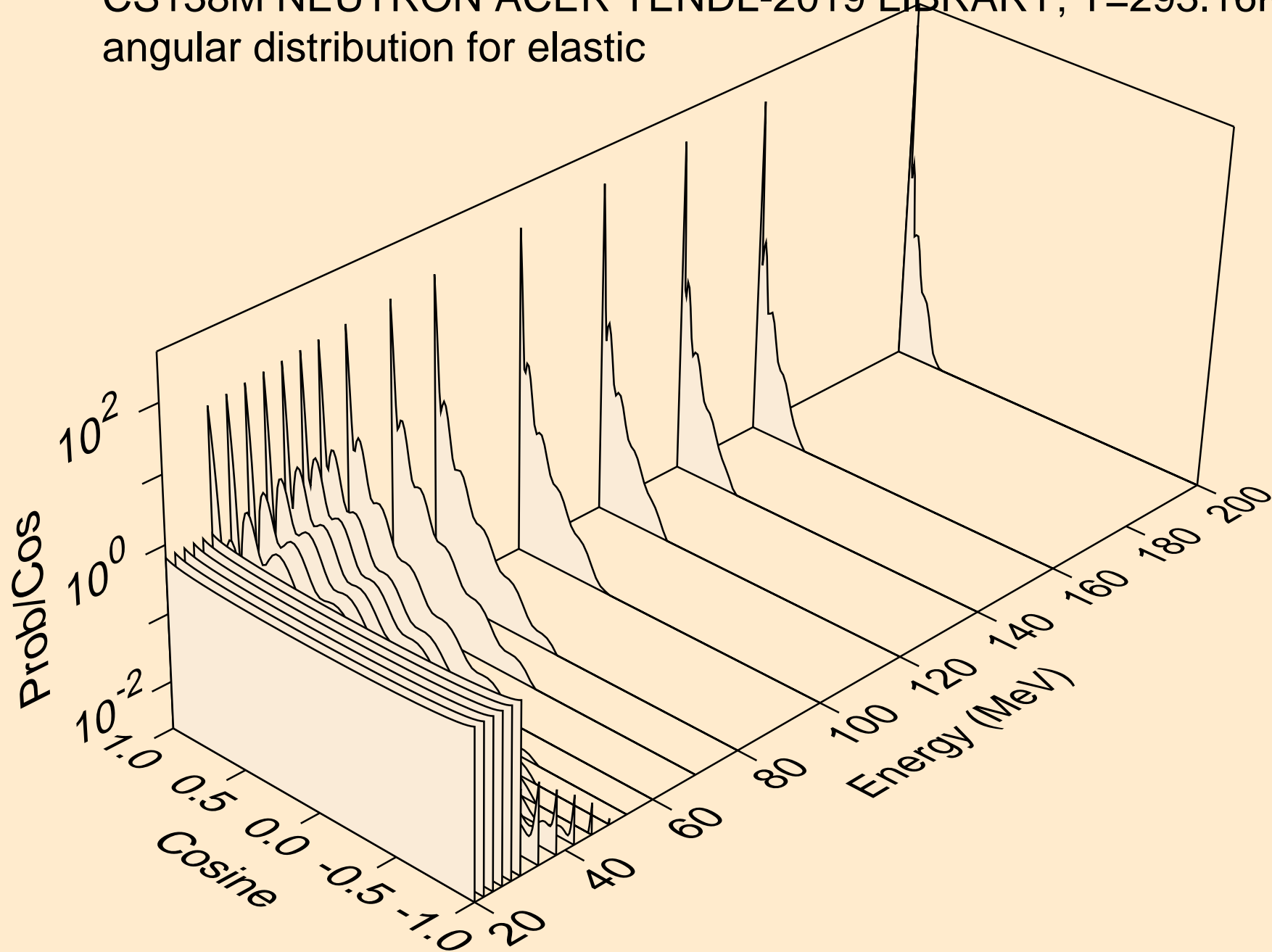
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Threshold reactions



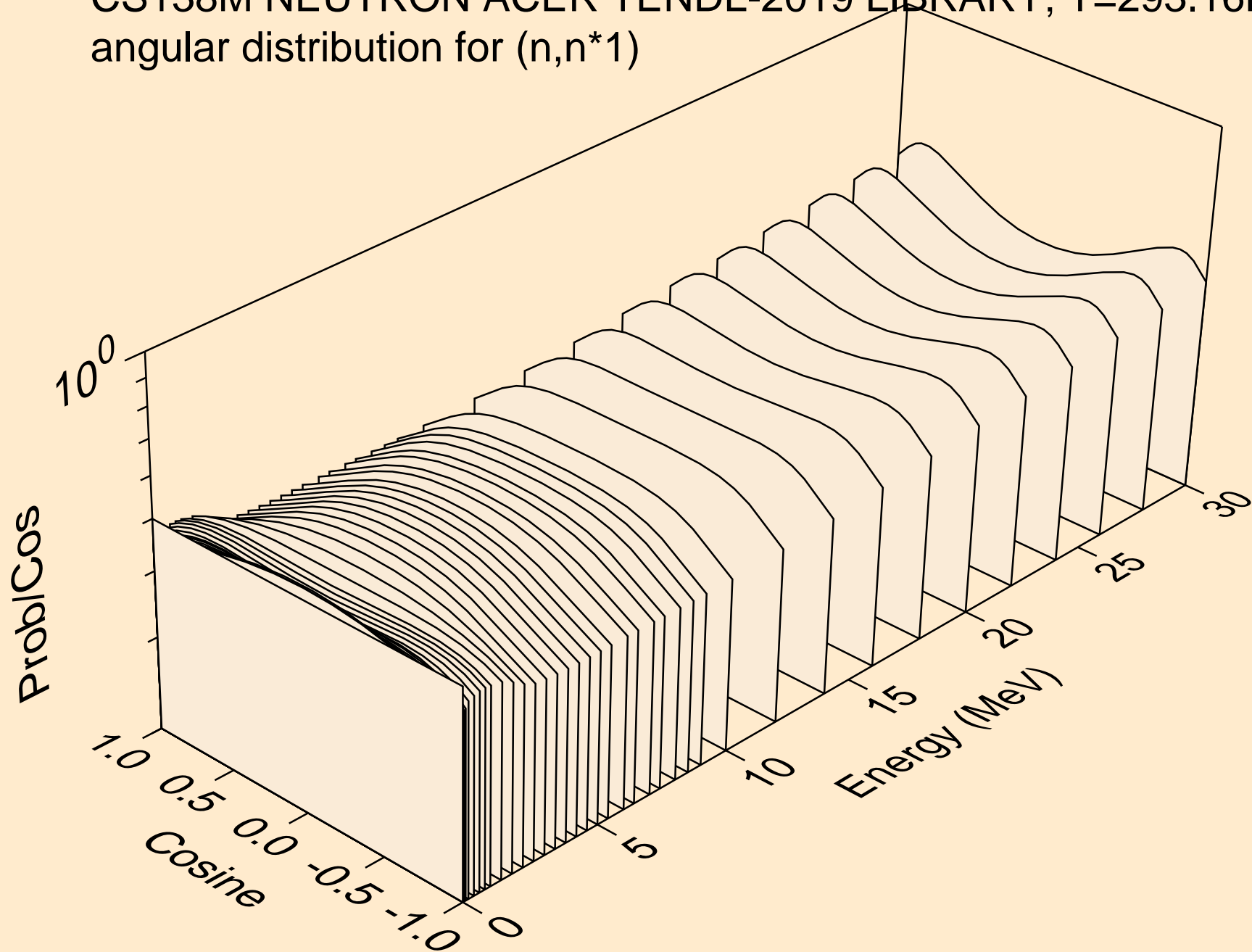
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angular distribution for elastic



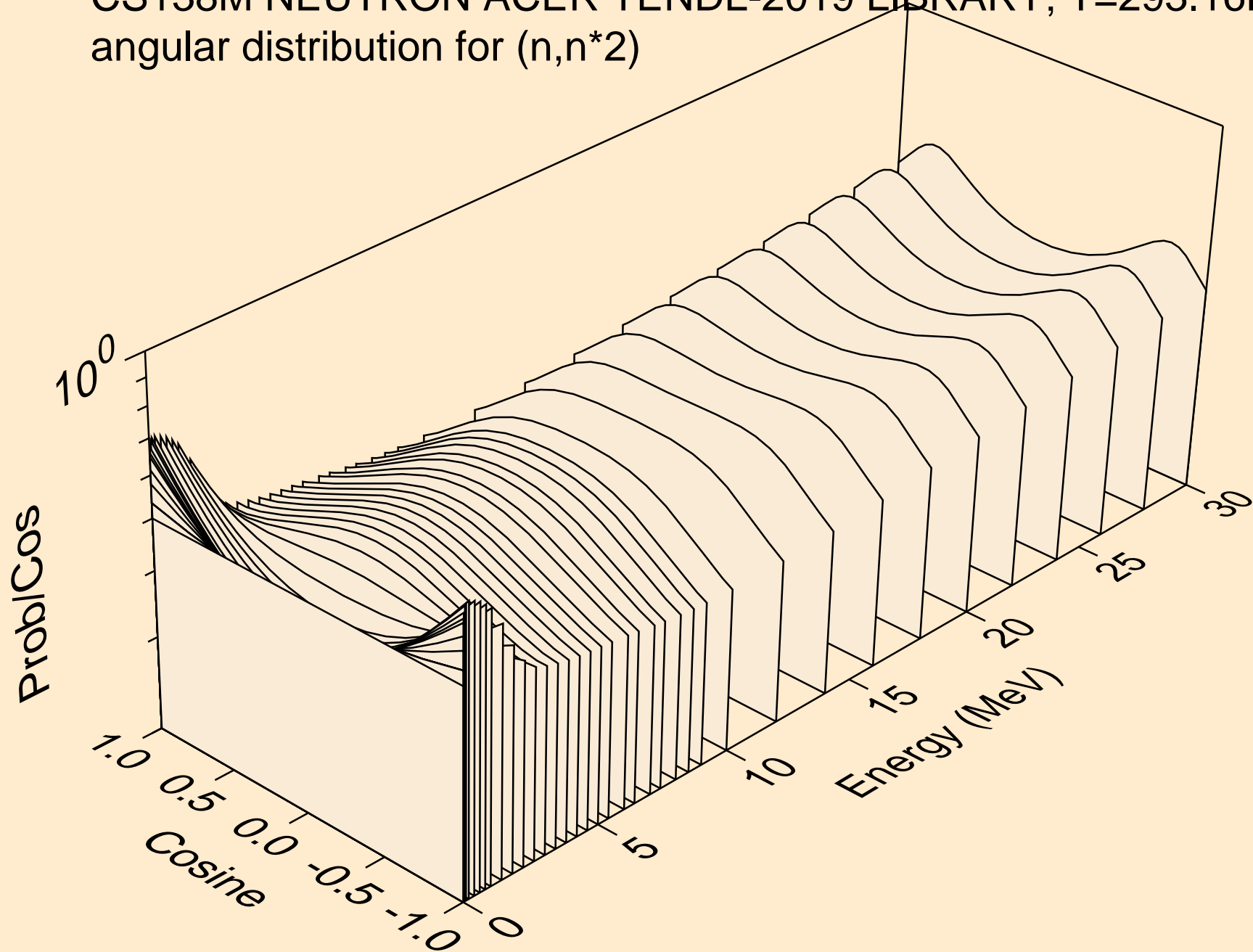
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

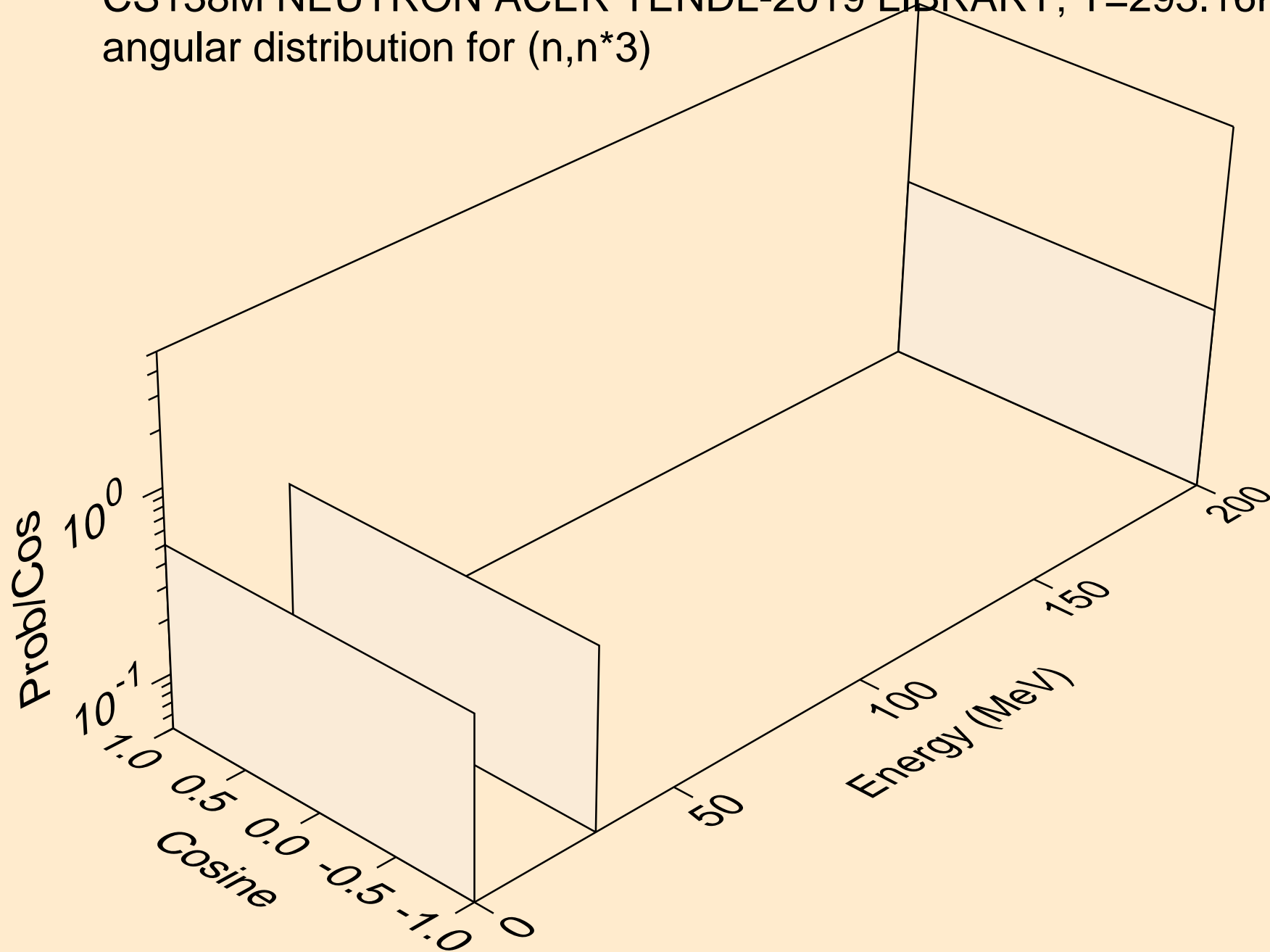


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angular distribution for (n,n\*2)

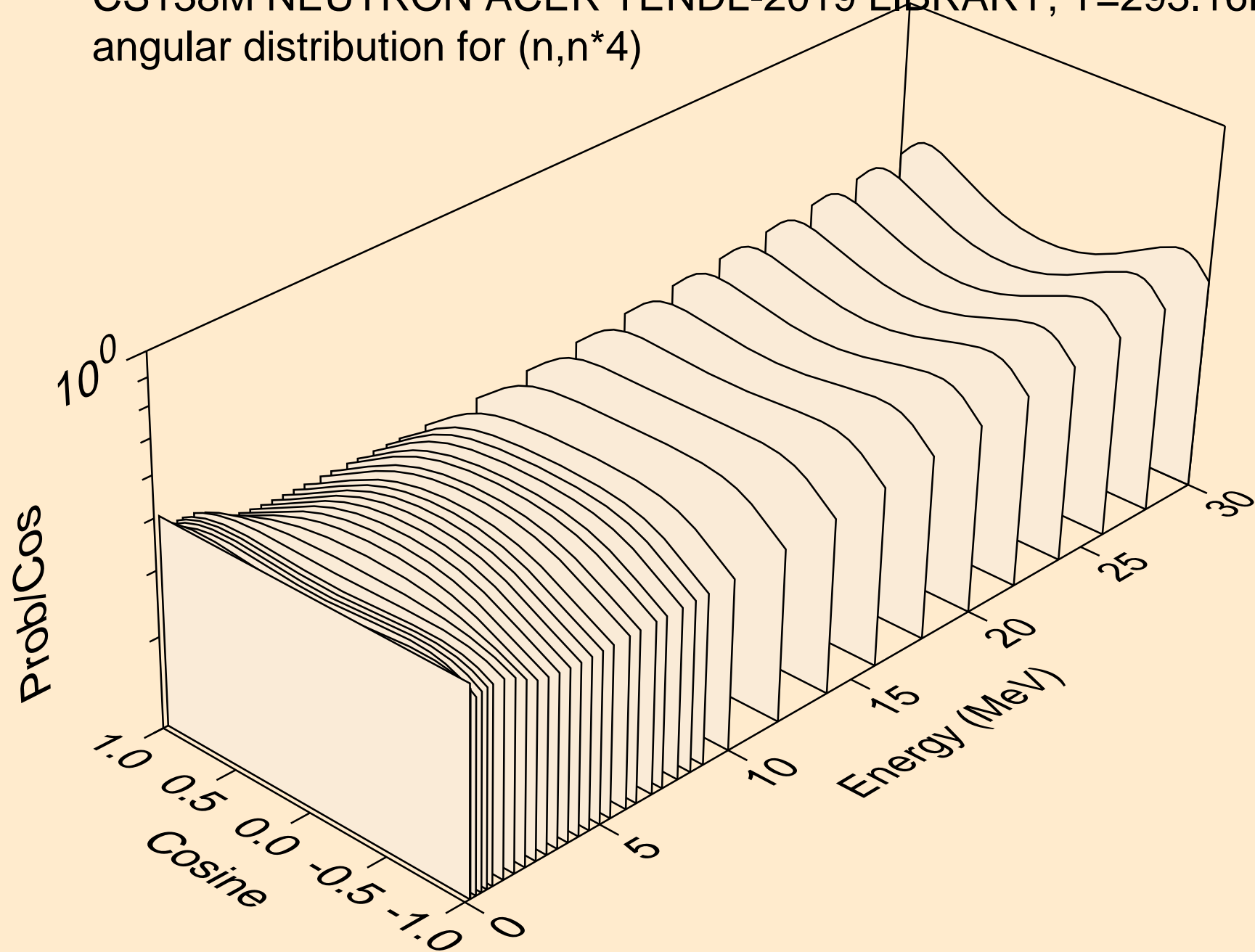




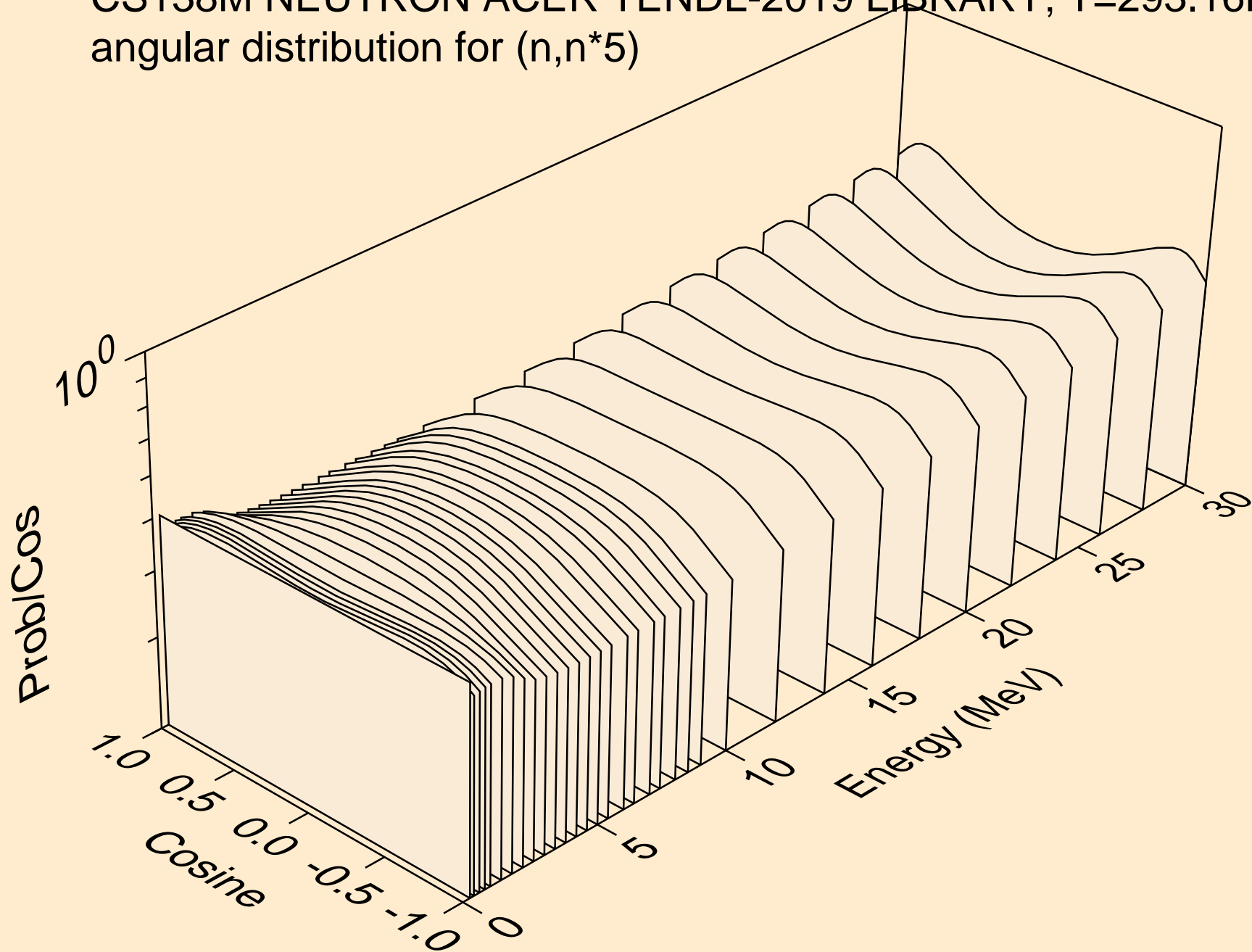
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angular distribution for (n,n\*3)



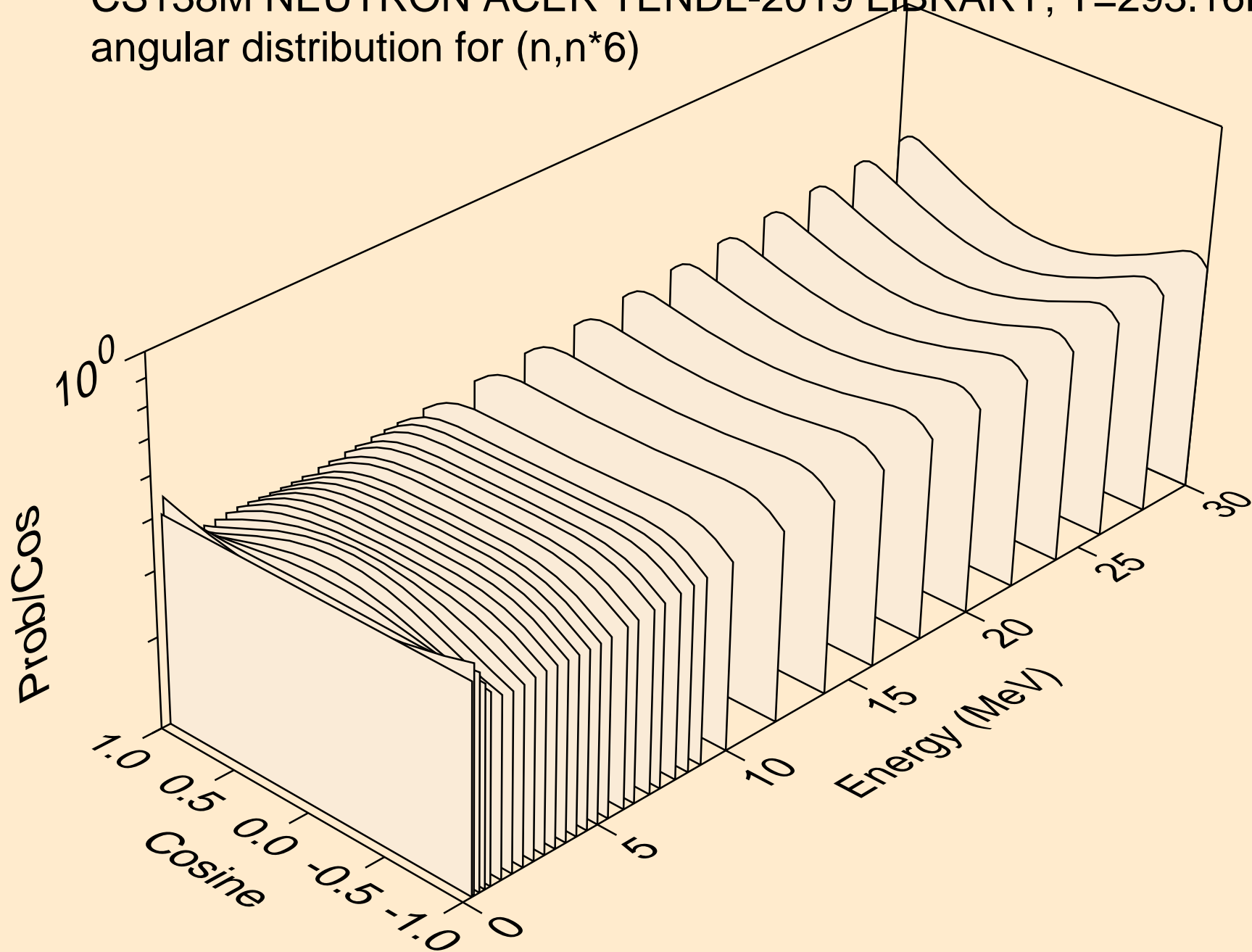
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angular distribution for (n,n\*4)



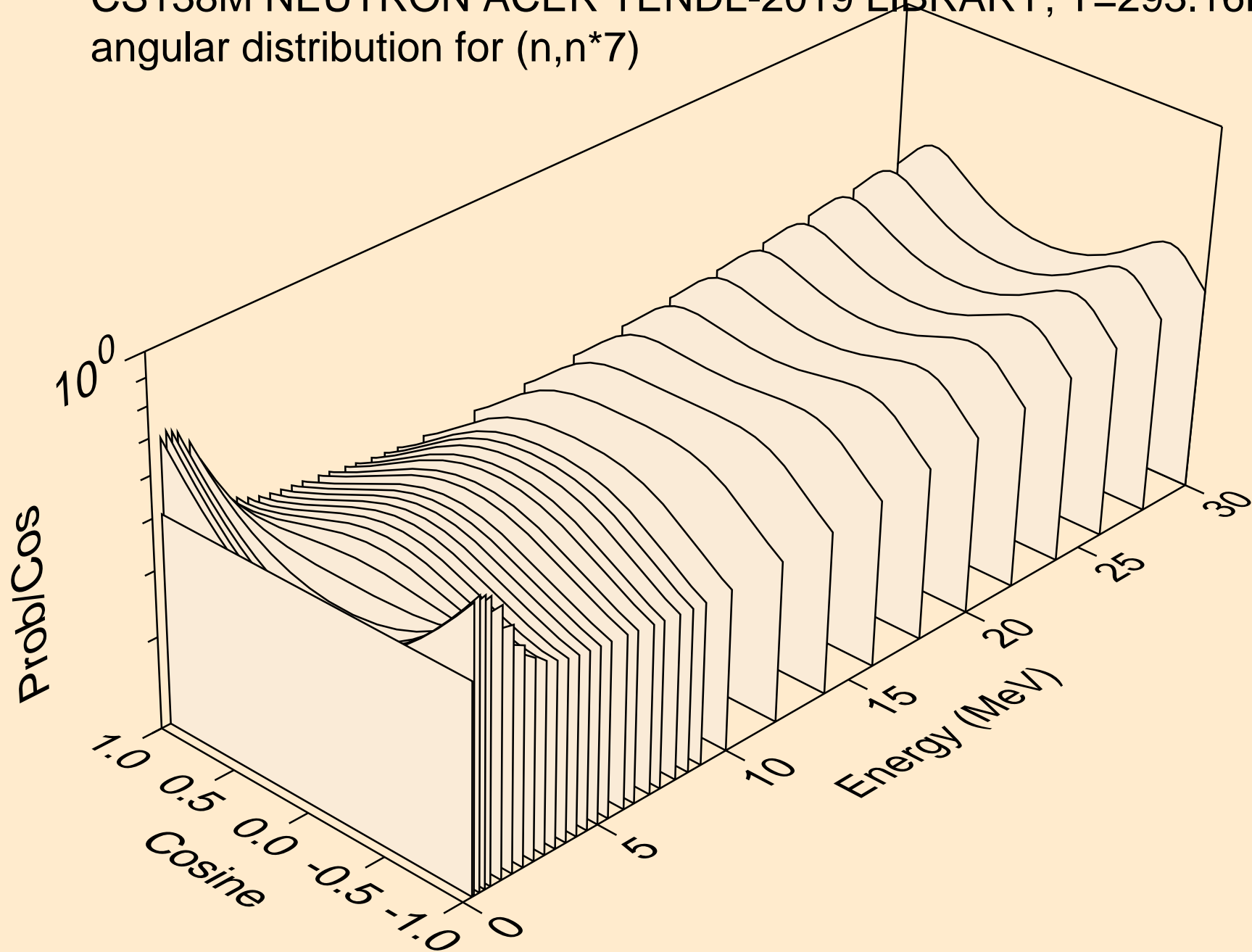
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angular distribution for (n,n\*5)



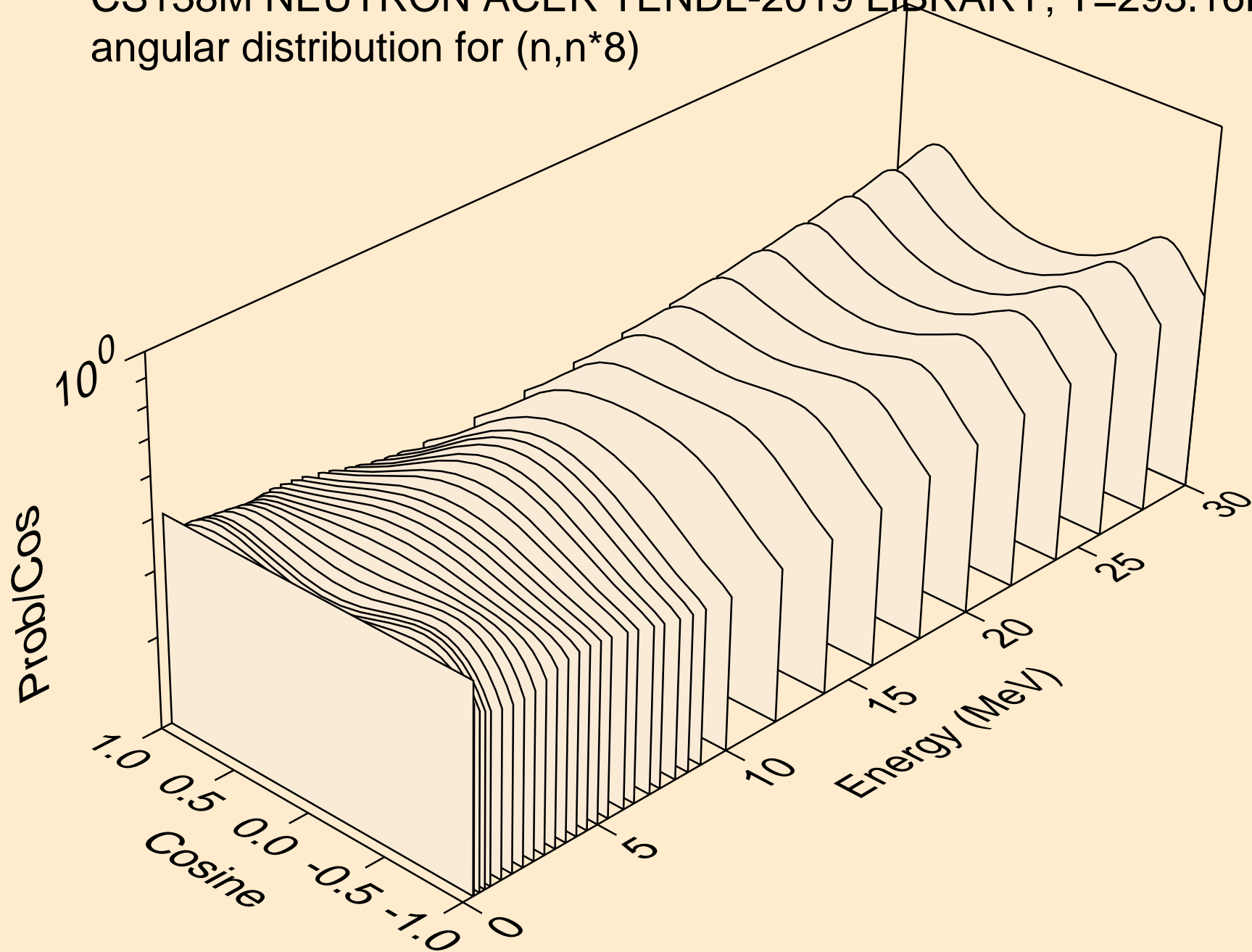
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angular distribution for (n,n\*6)



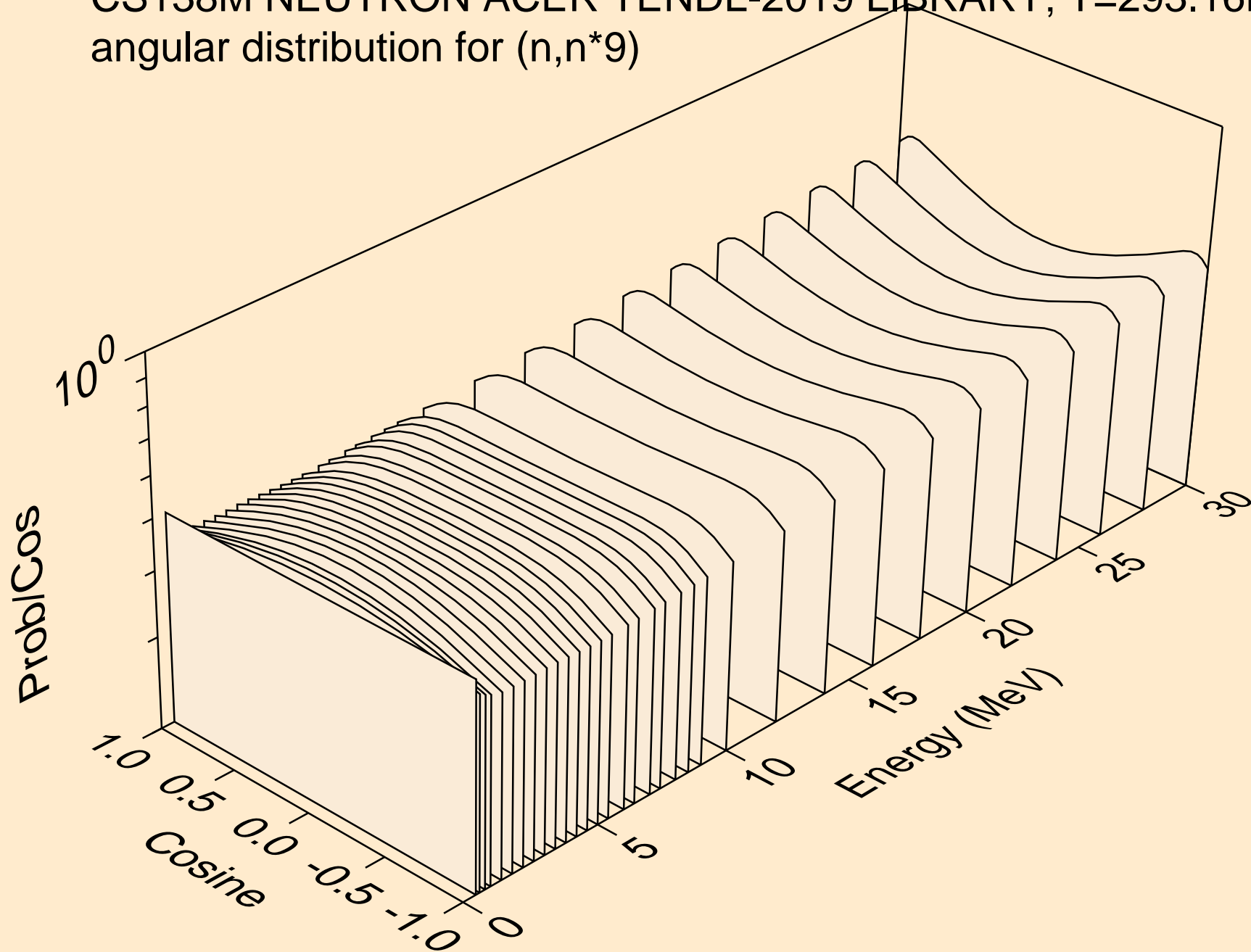
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angular distribution for (n,n\*7)



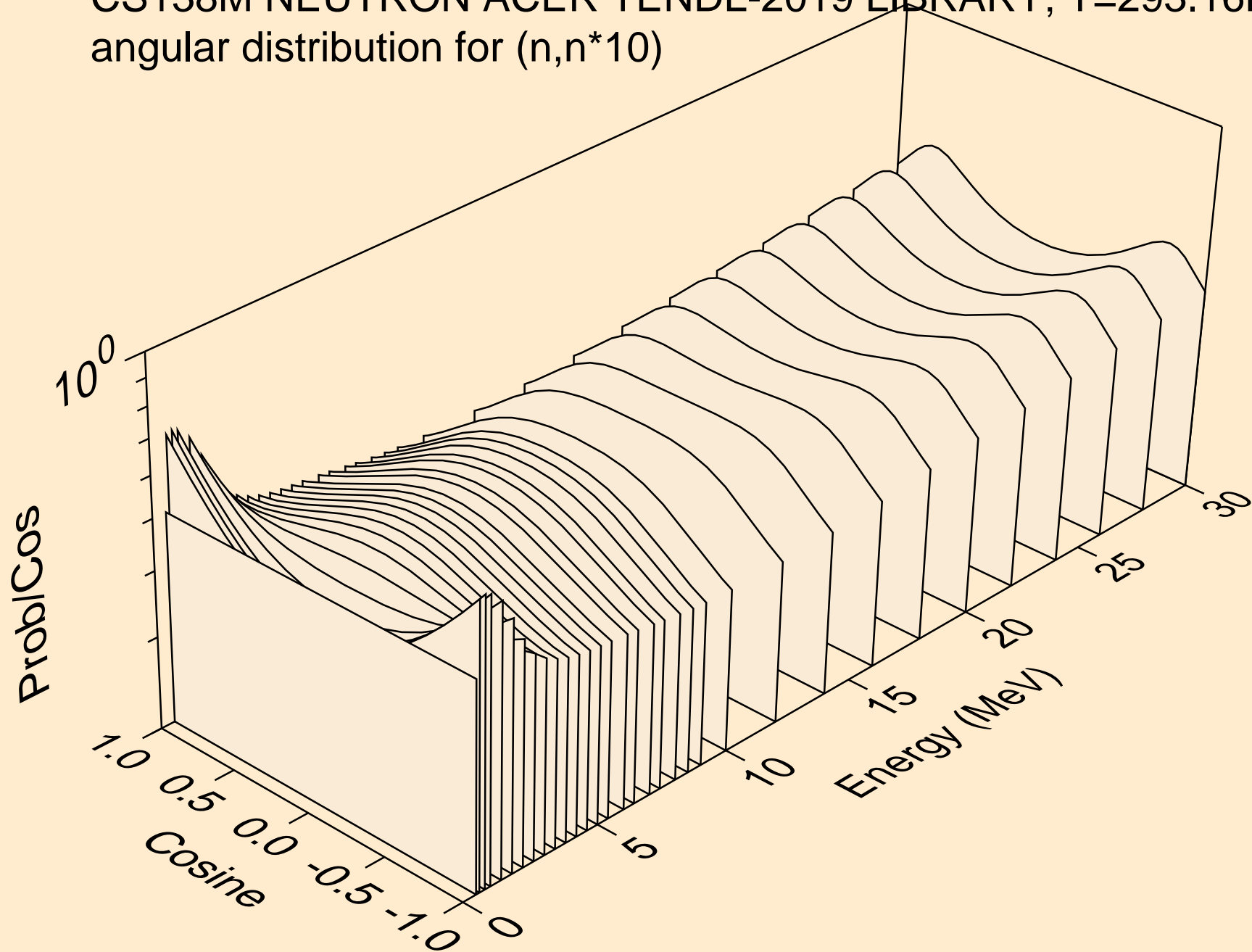
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

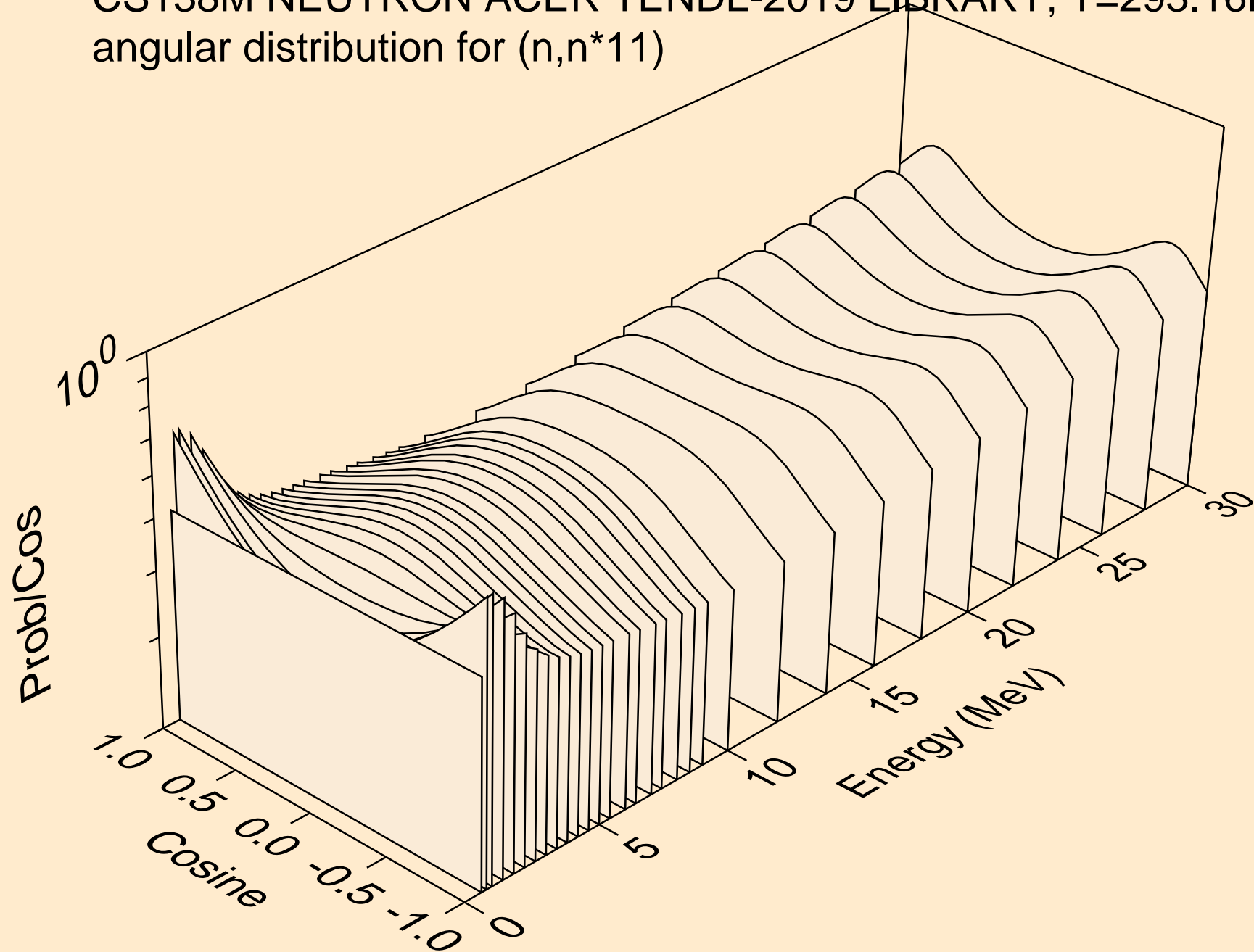


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angular distribution for (n,n\*10)

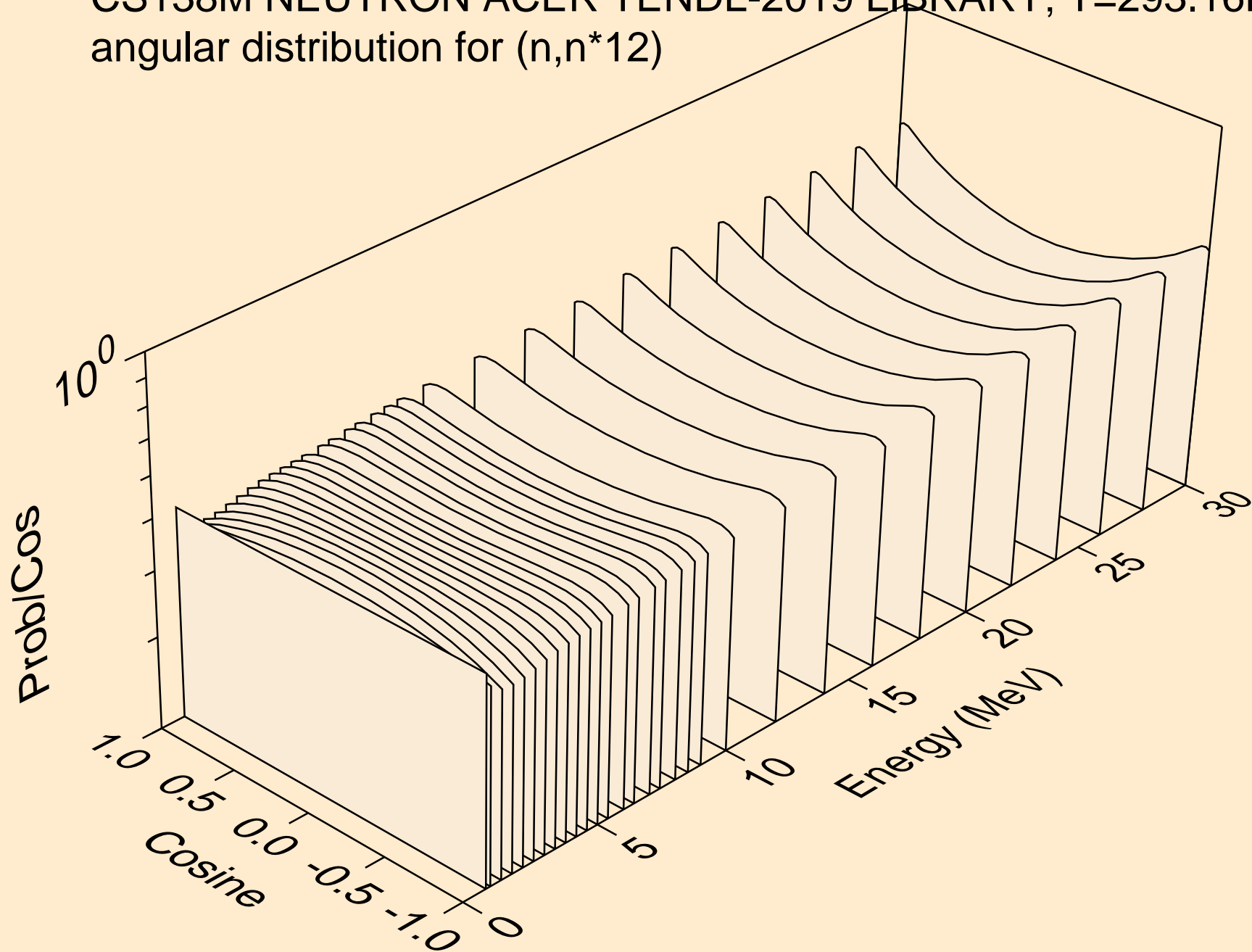




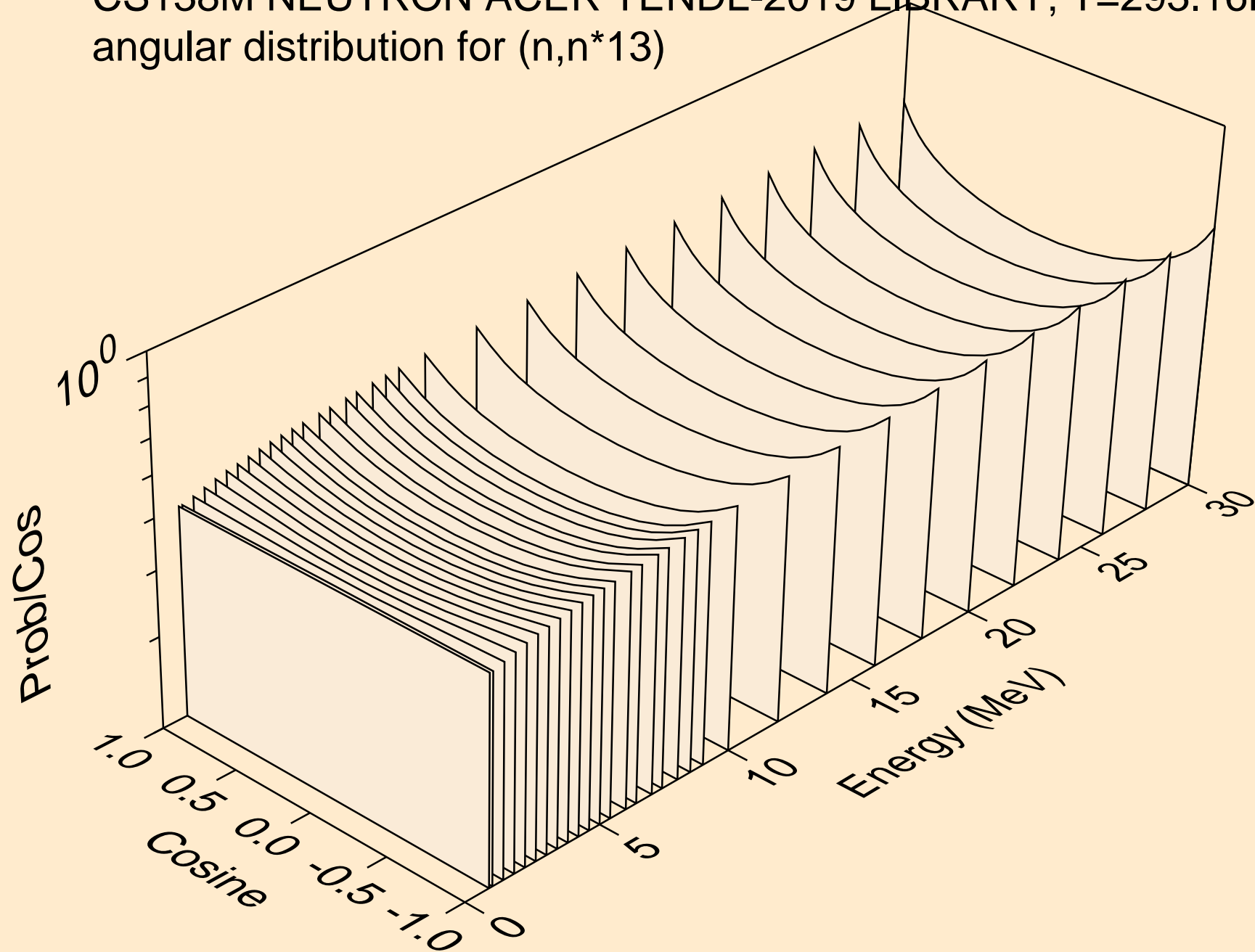
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angular distribution for (n,n\*11)



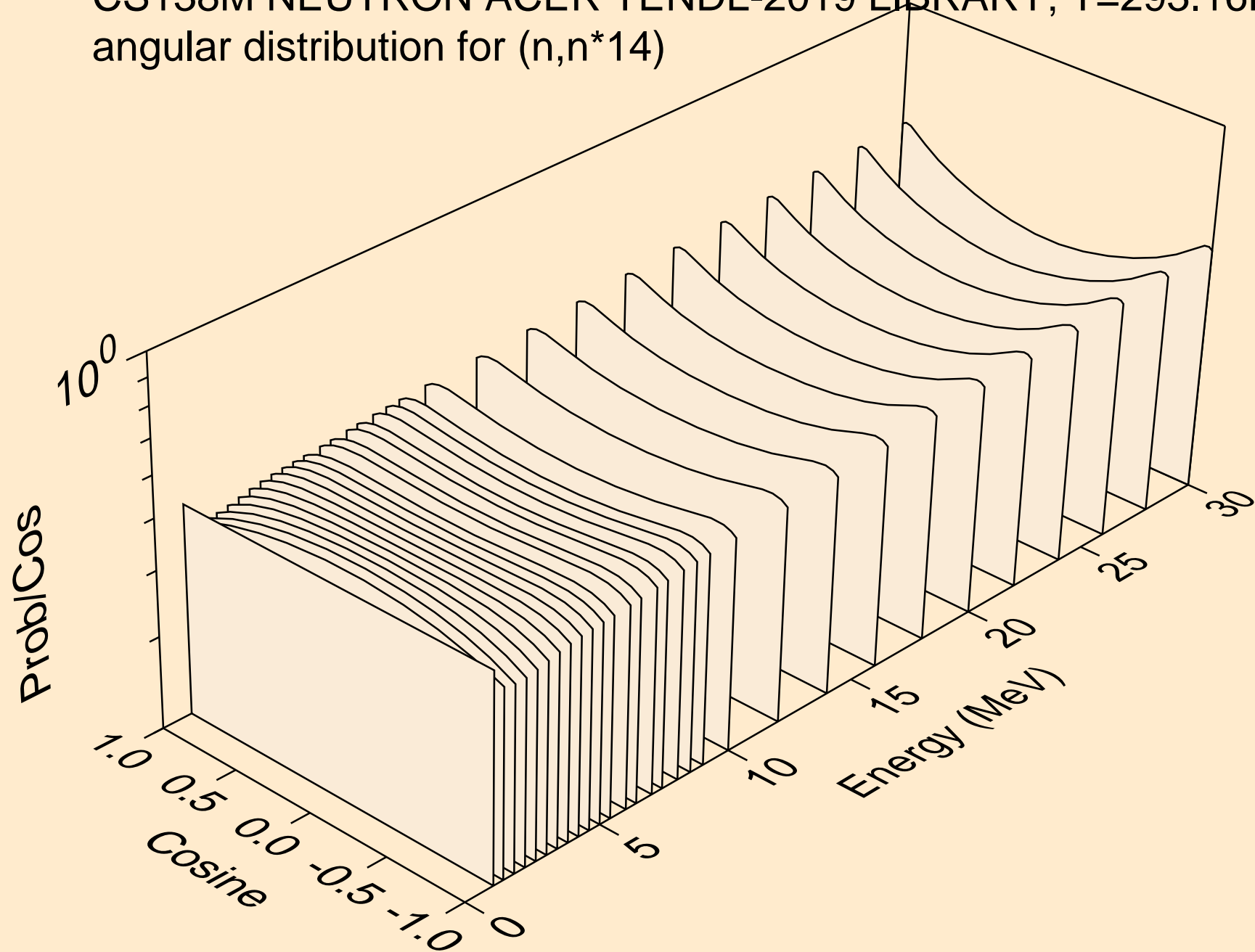
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angular distribution for (n,n\*12)



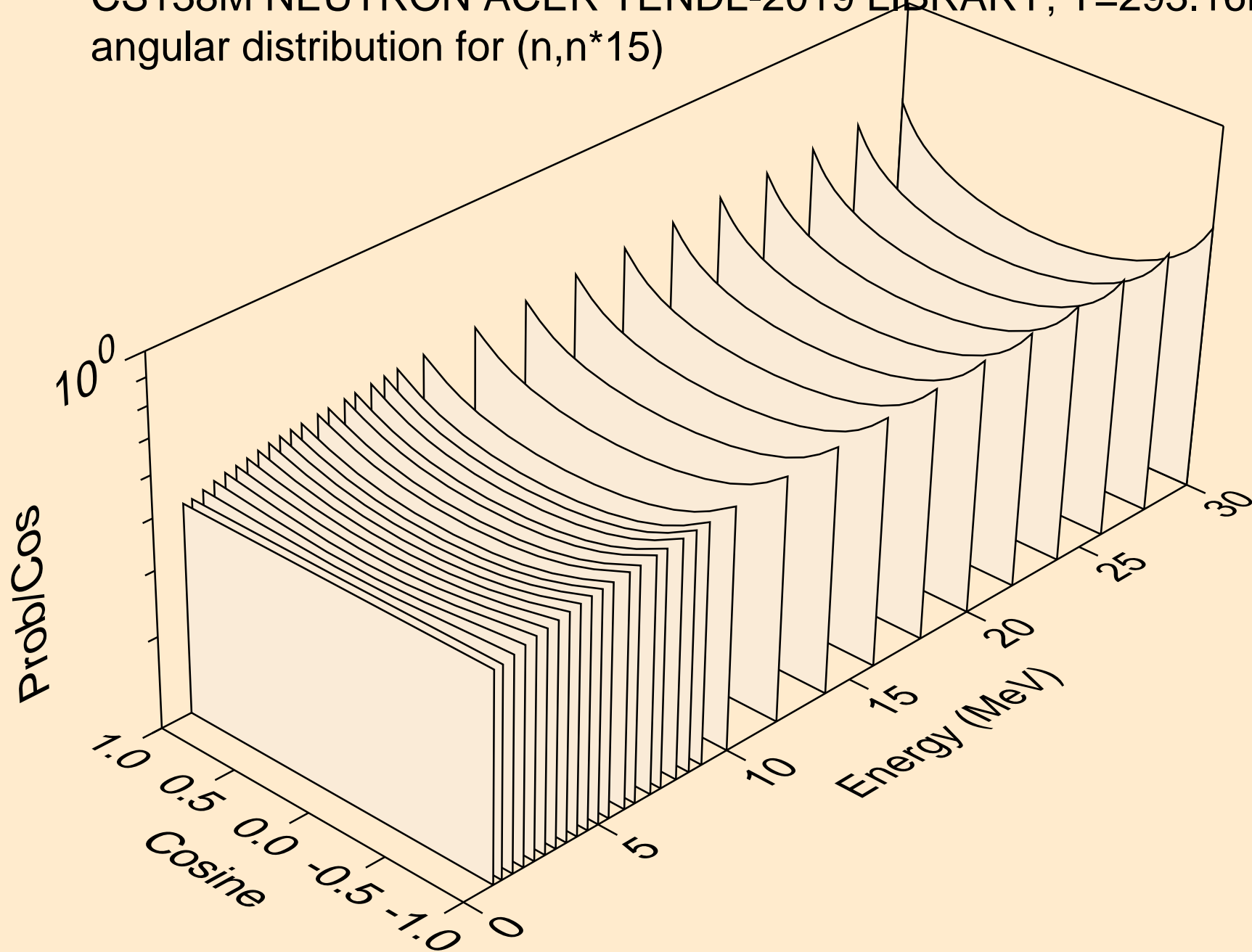
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angular distribution for (n,n\*13)



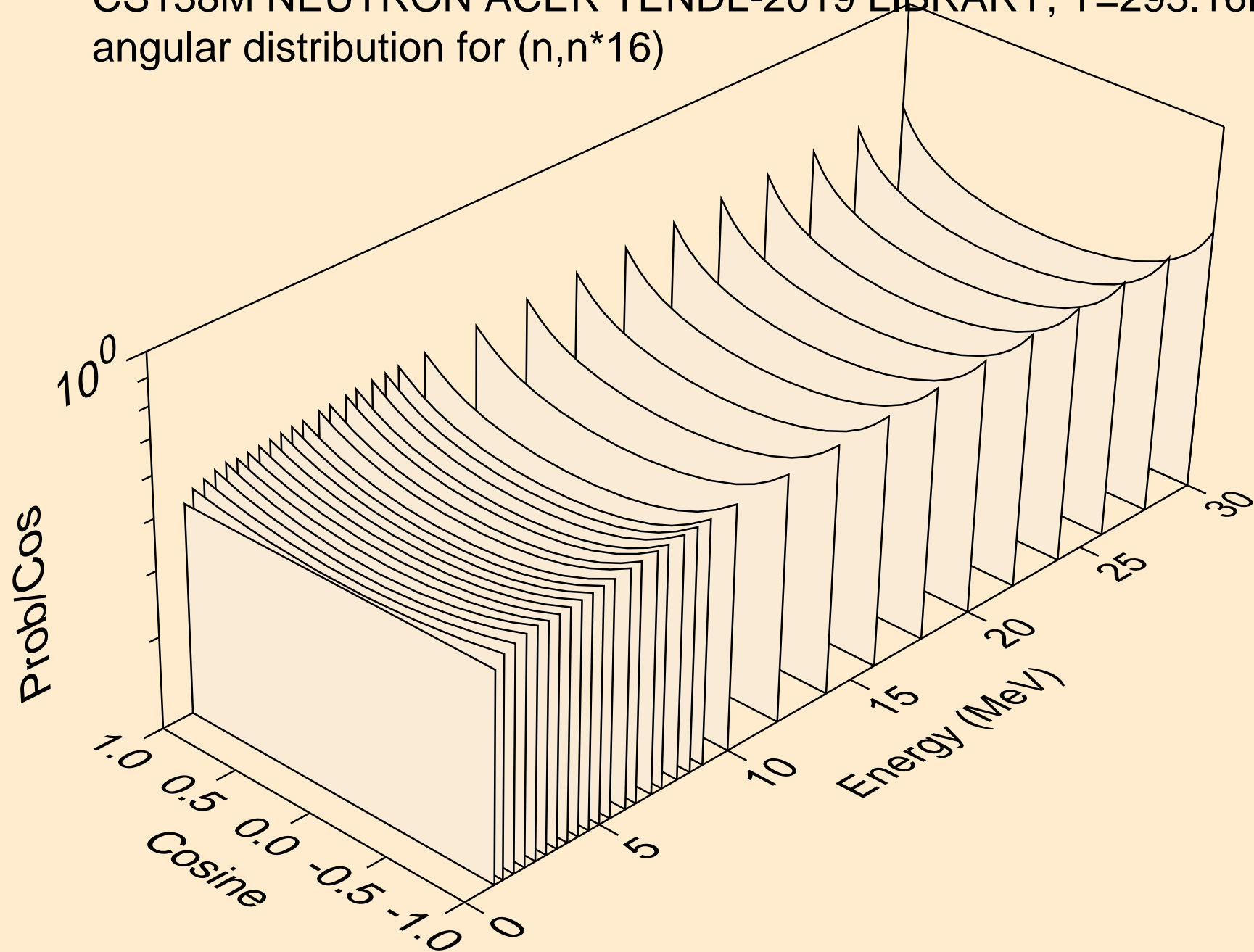
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angular distribution for (n,n\*14)



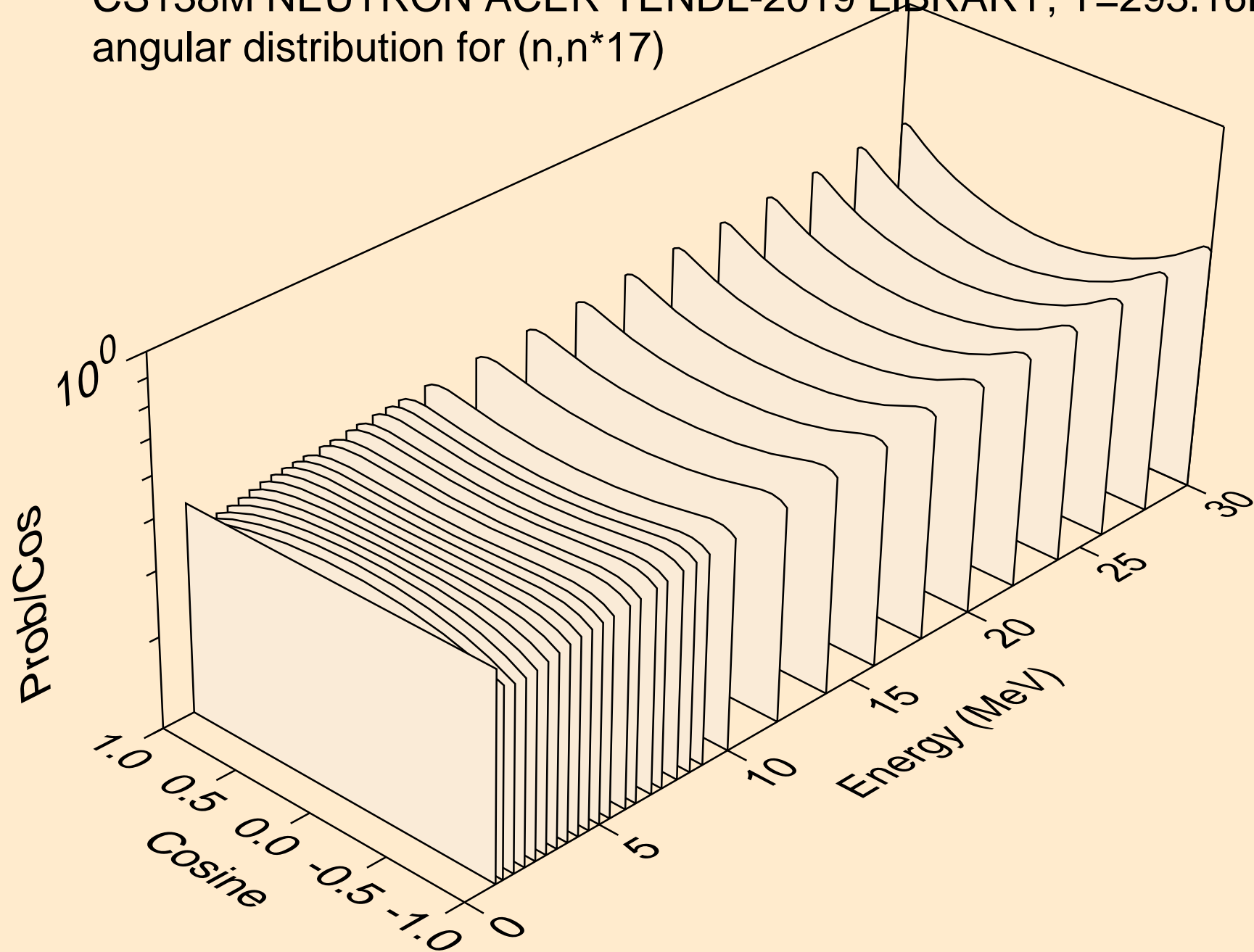
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angular distribution for (n,n\*15)



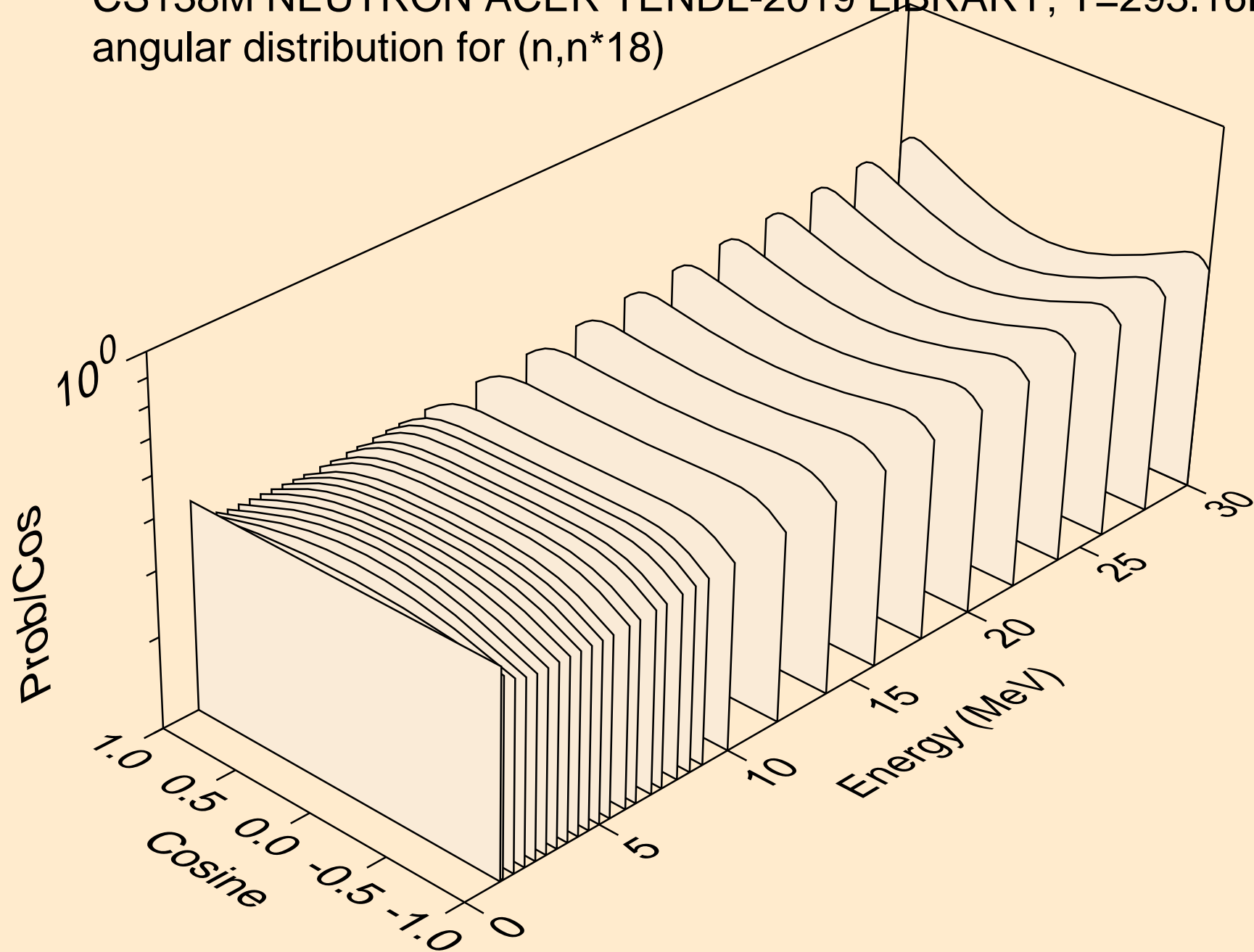
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angular distribution for (n,n\*16)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)

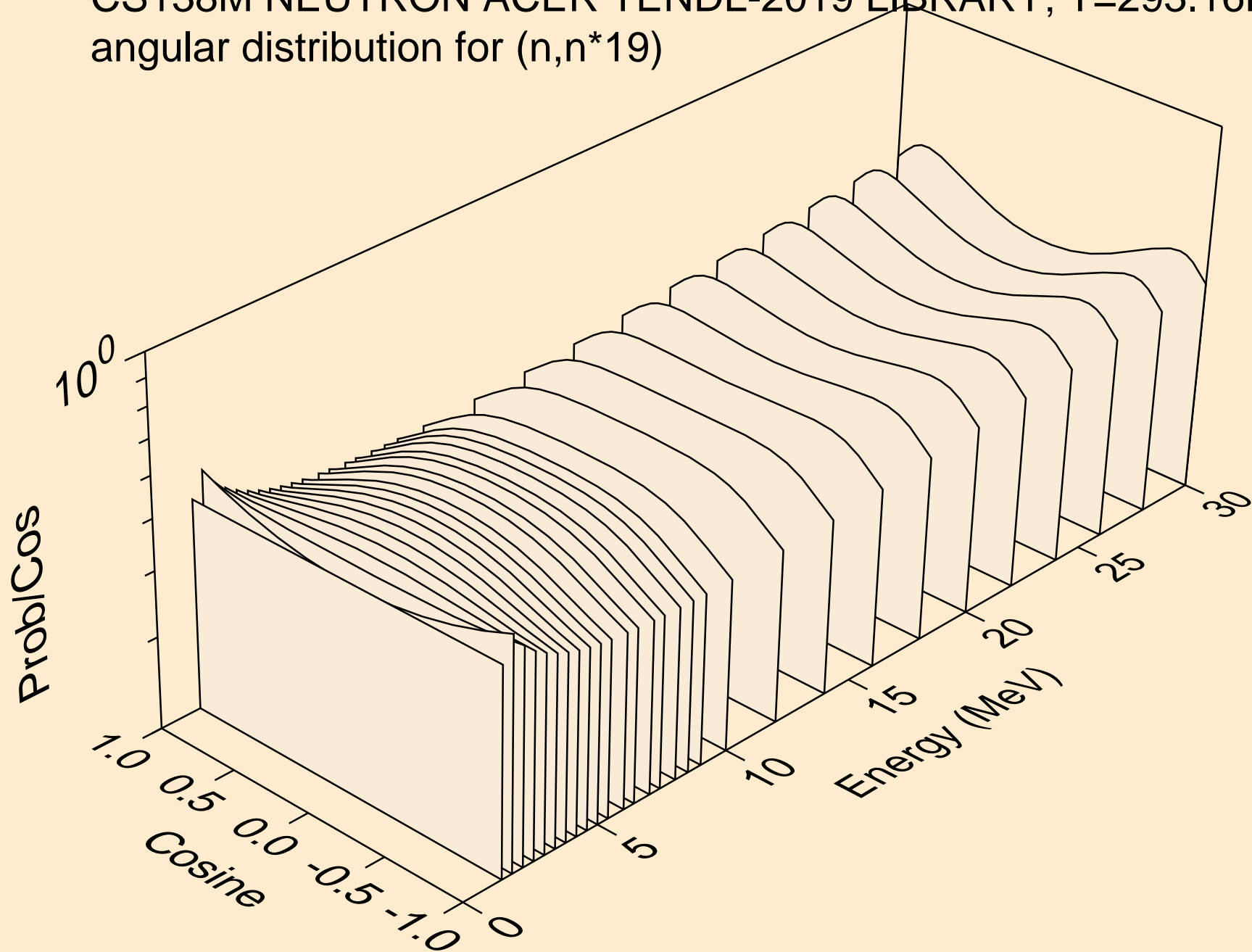


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)

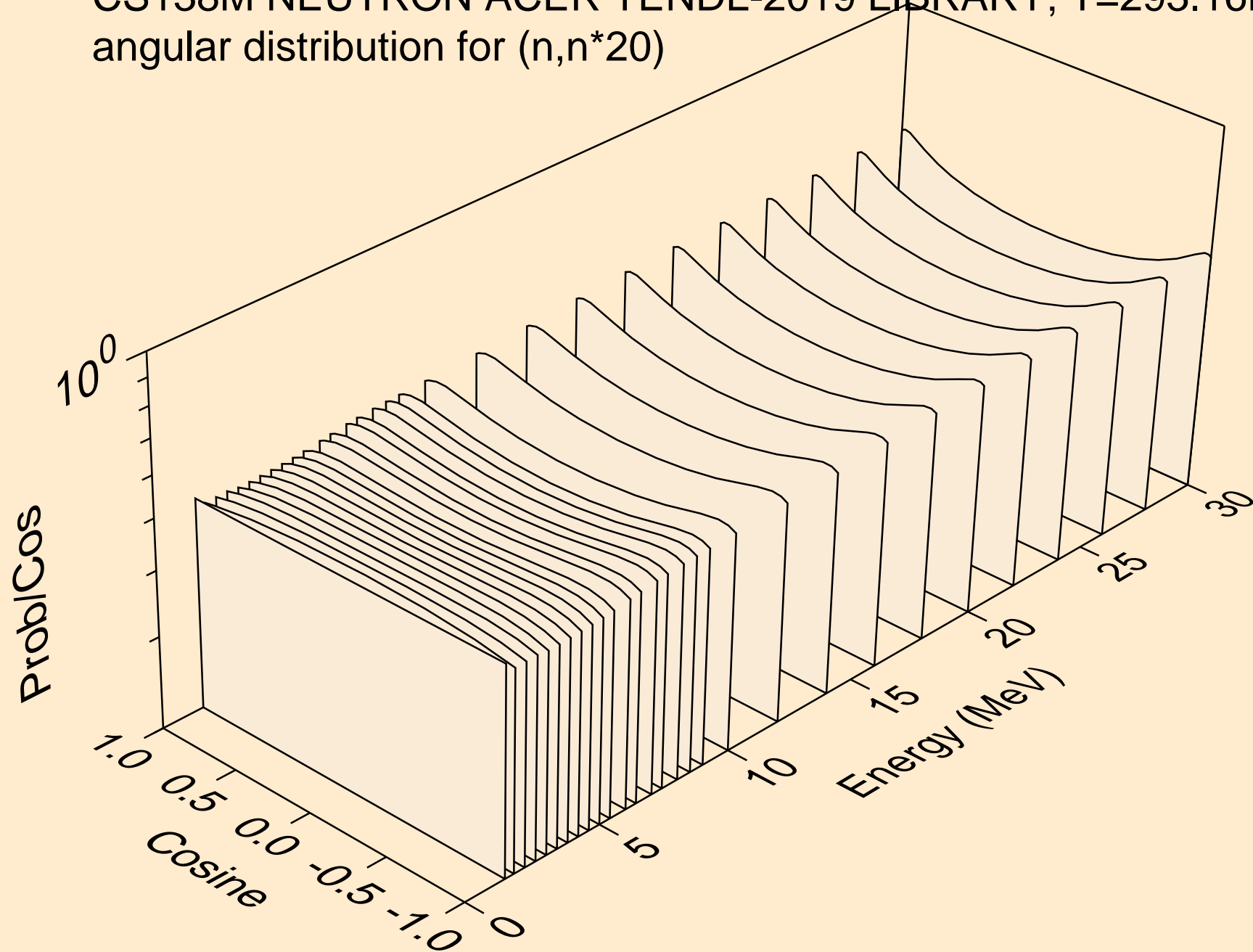




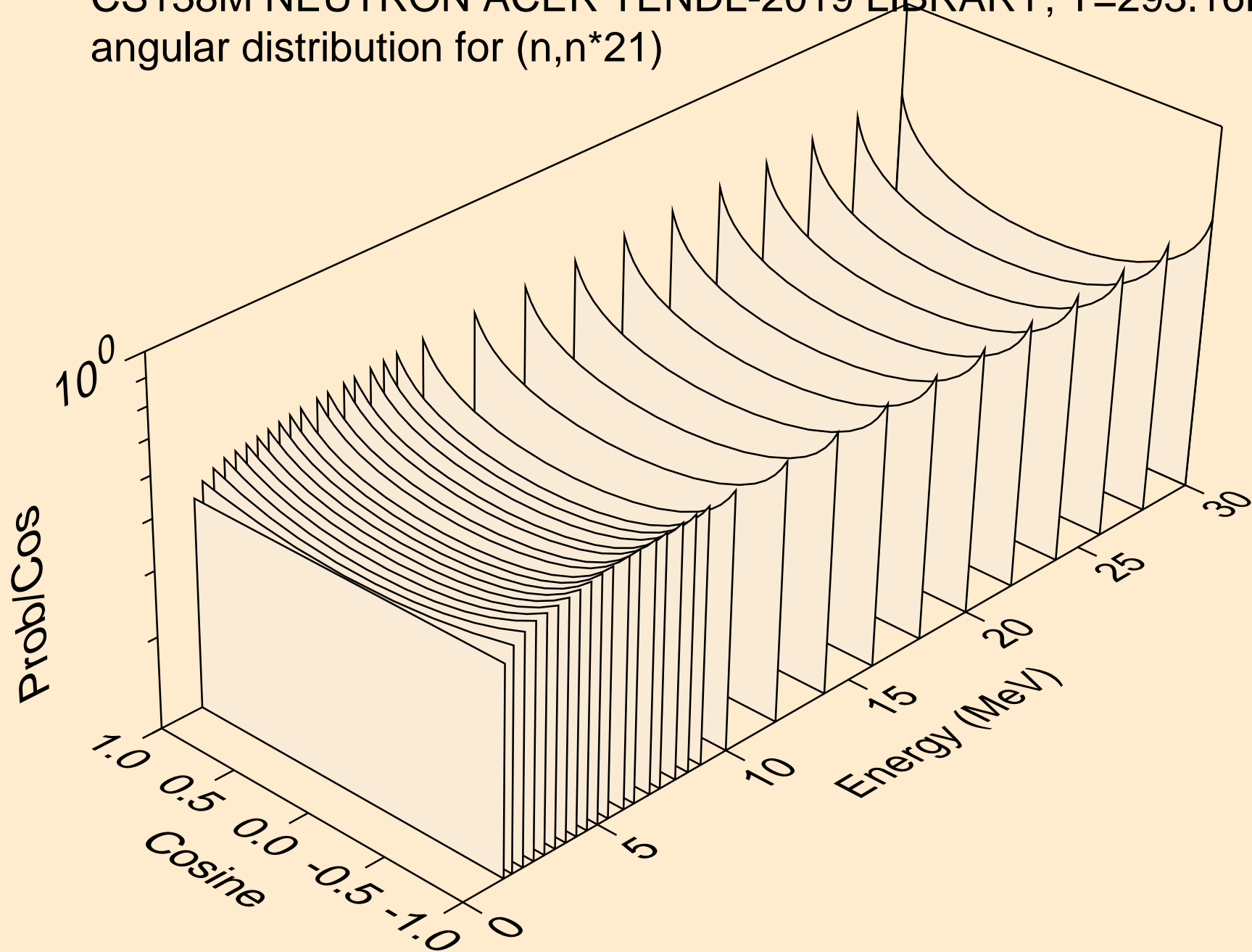
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angular distribution for (n,n\*19)



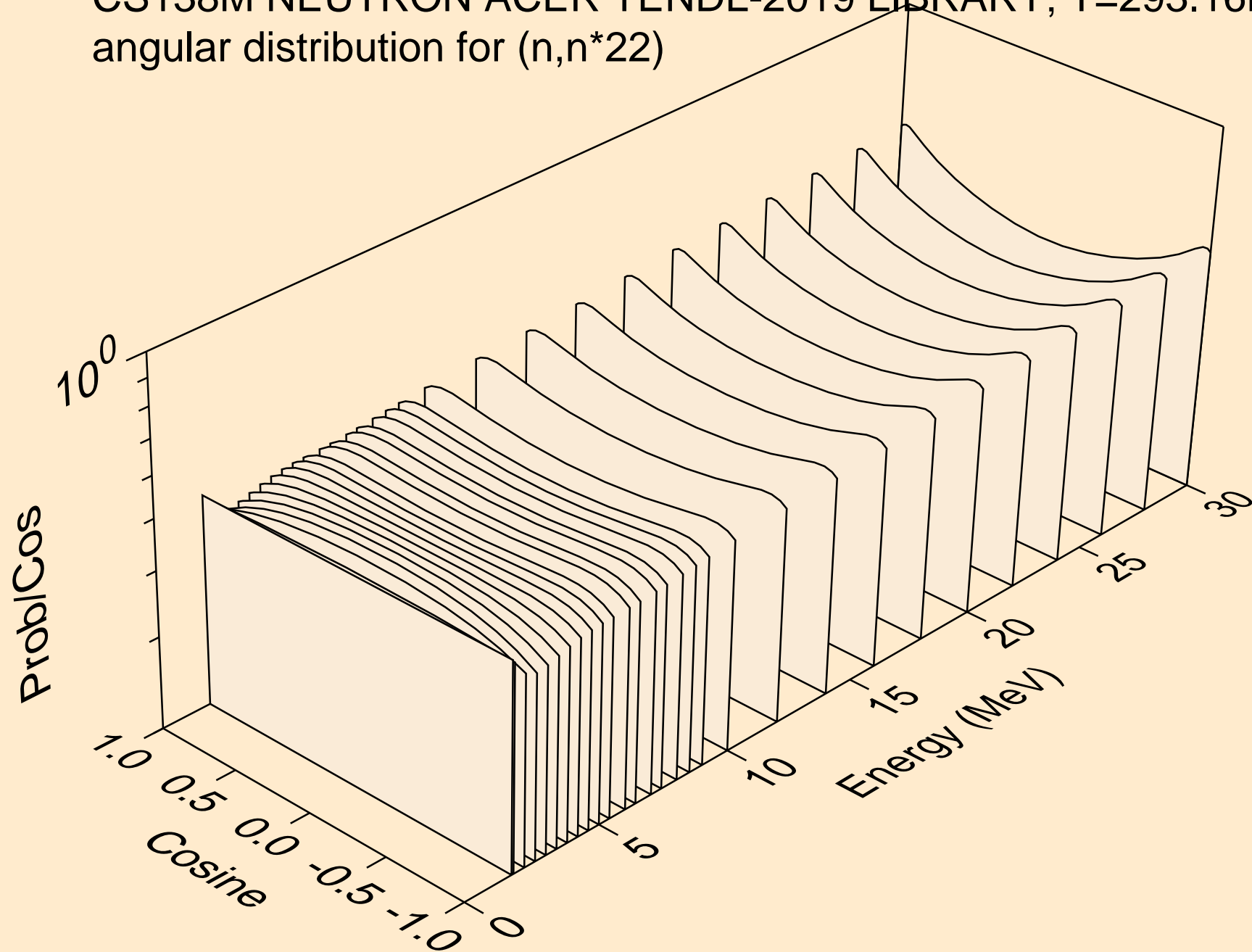
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angular distribution for (n,n\*20)



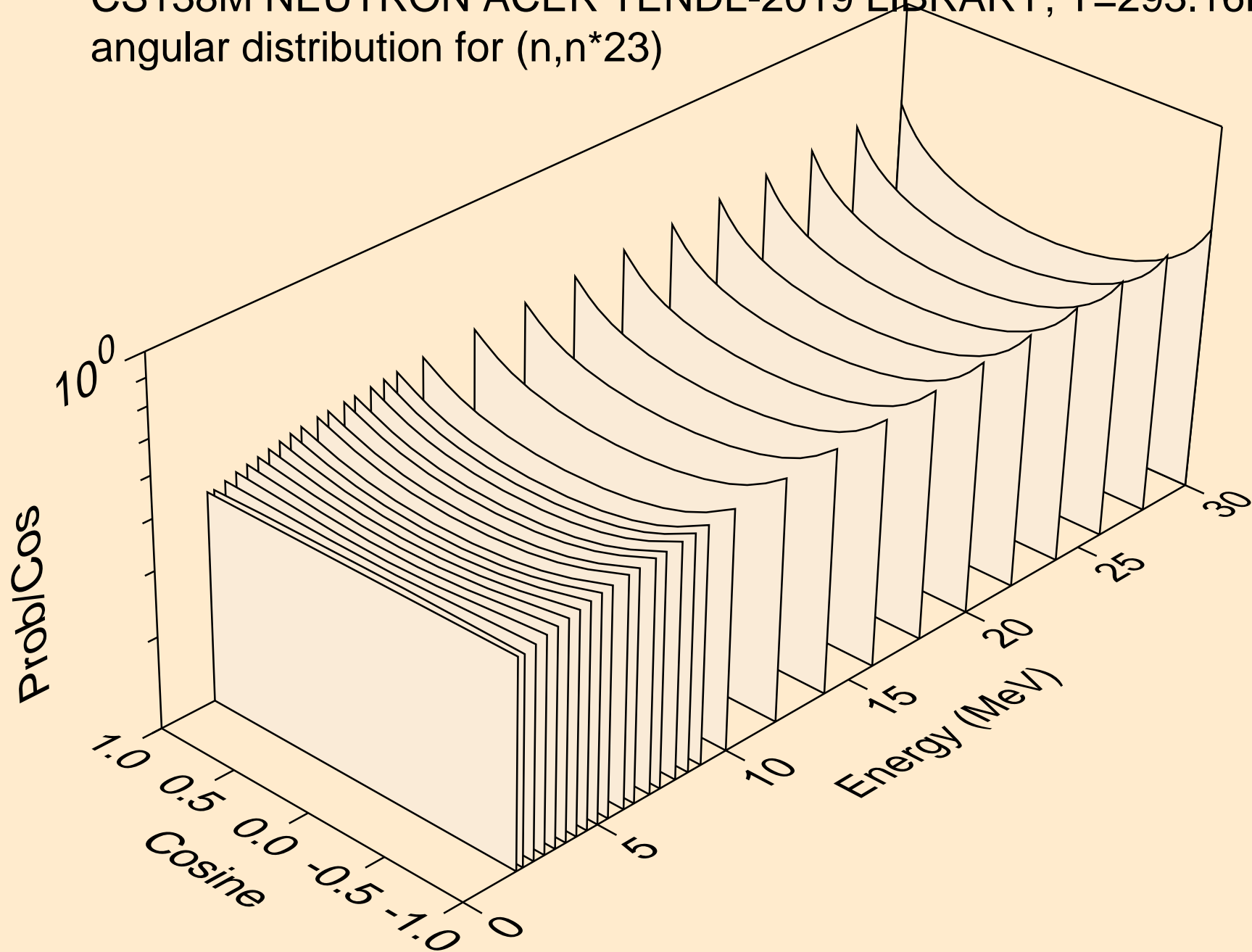
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angular distribution for (n,n\*21)



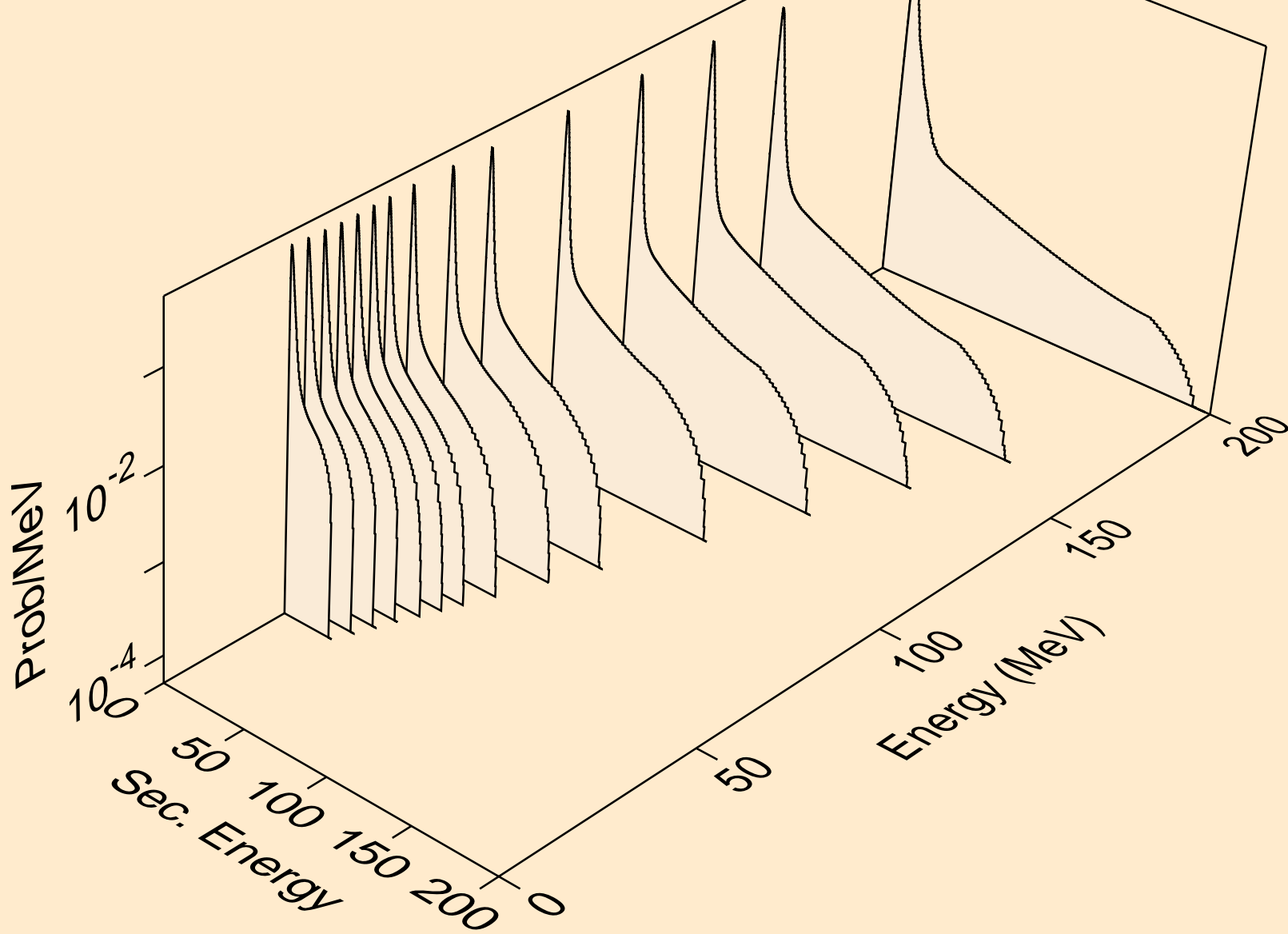
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angular distribution for (n,n\*22)



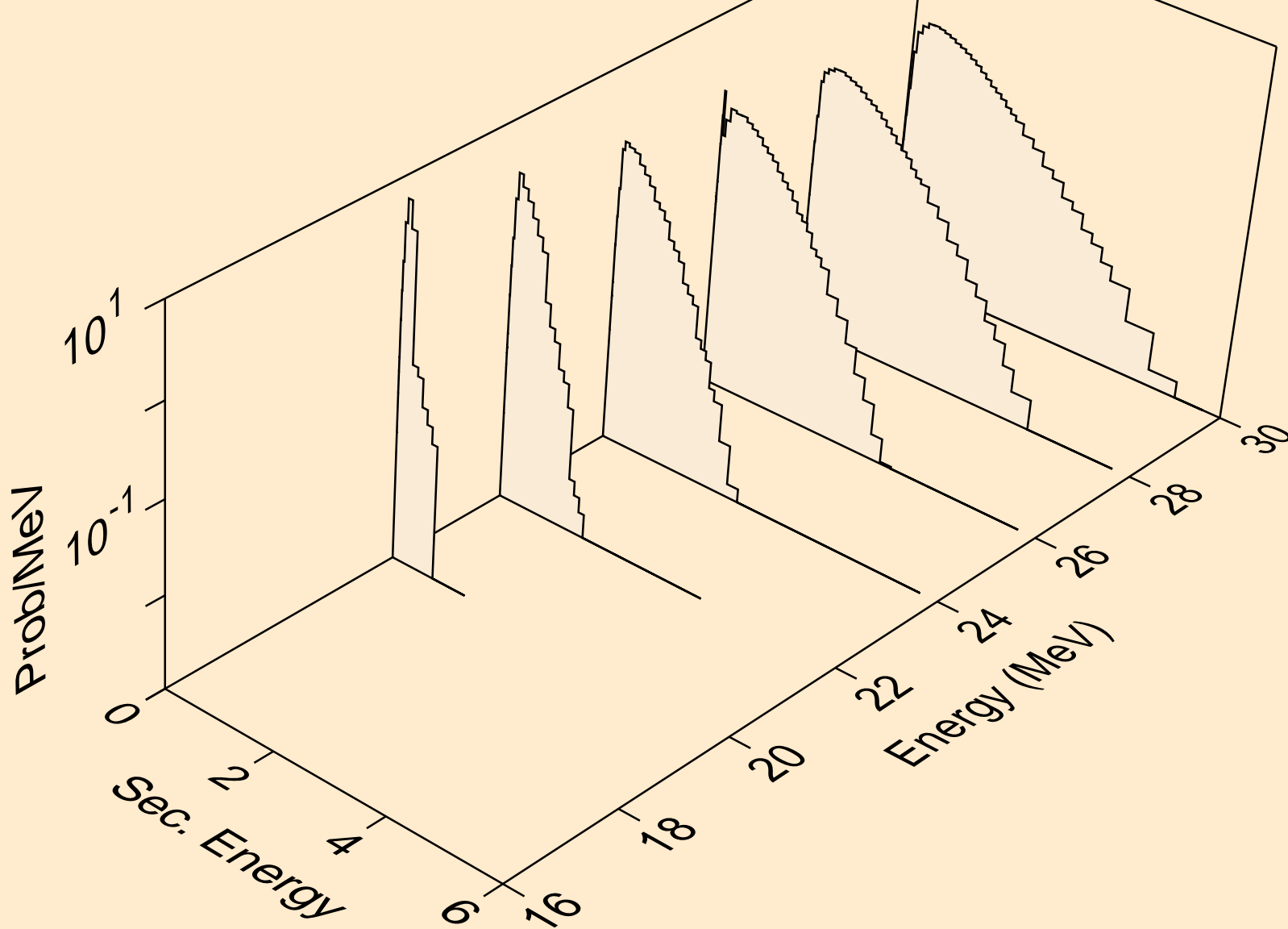
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angular distribution for (n,n\*23)



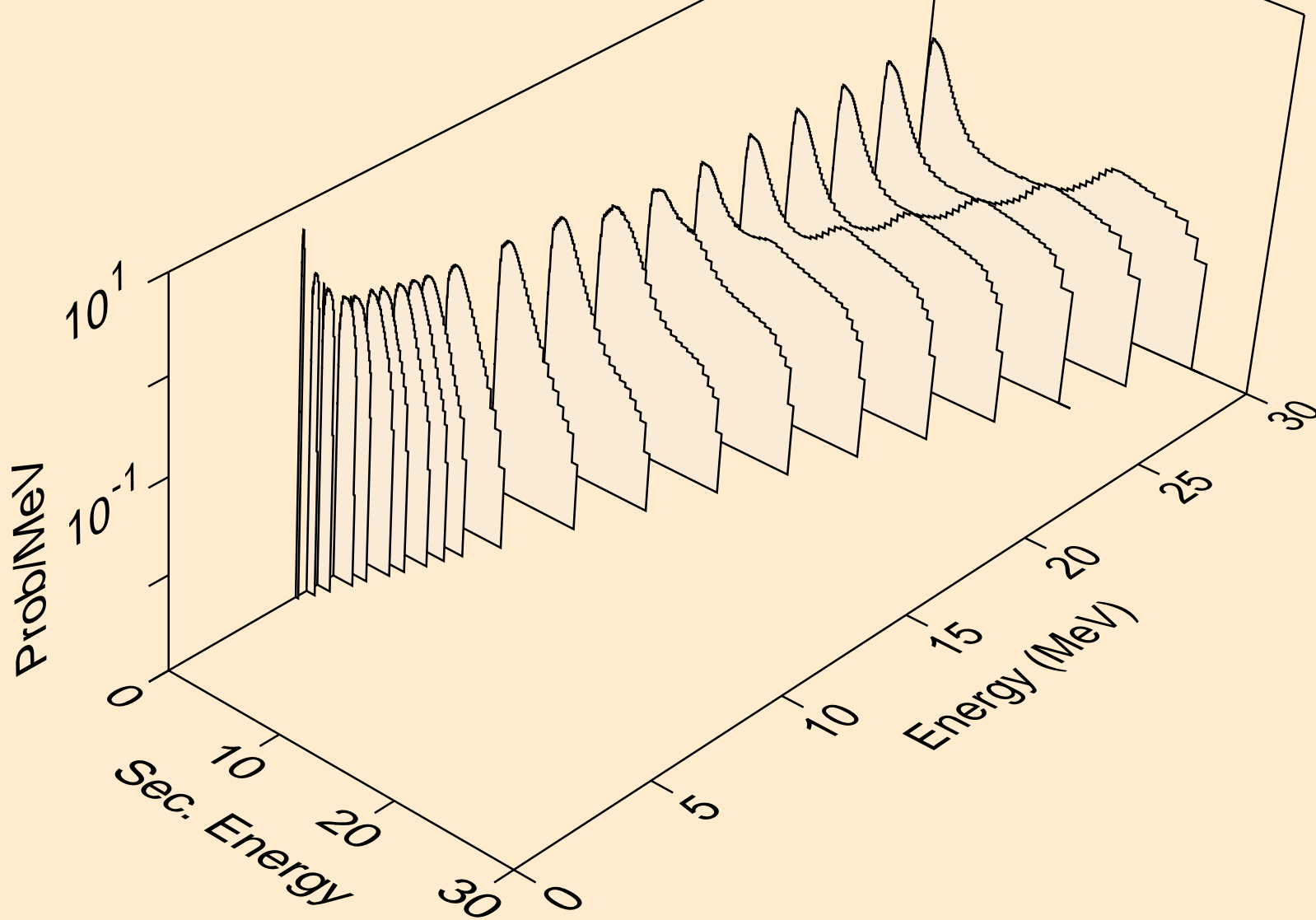
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

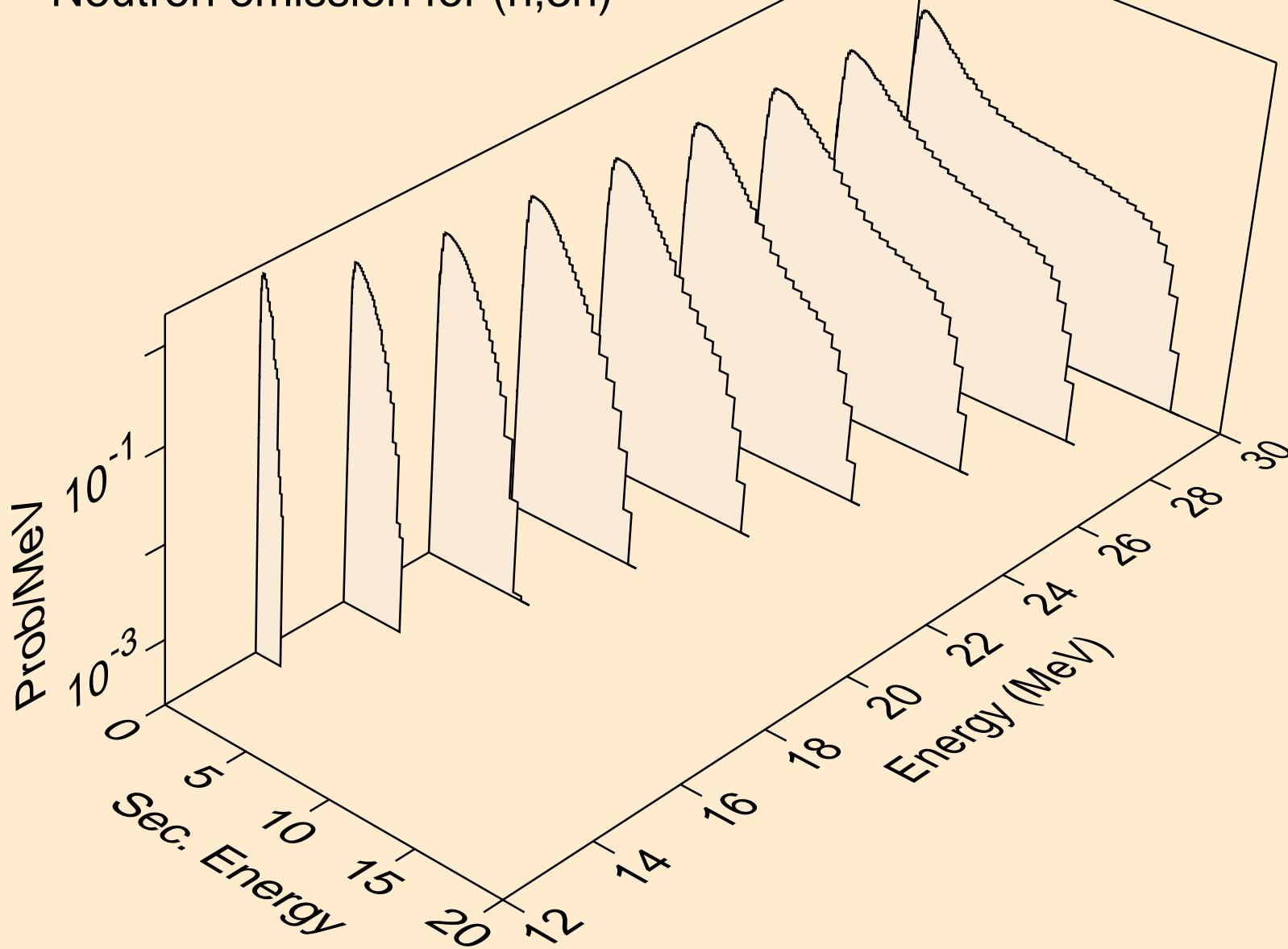


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

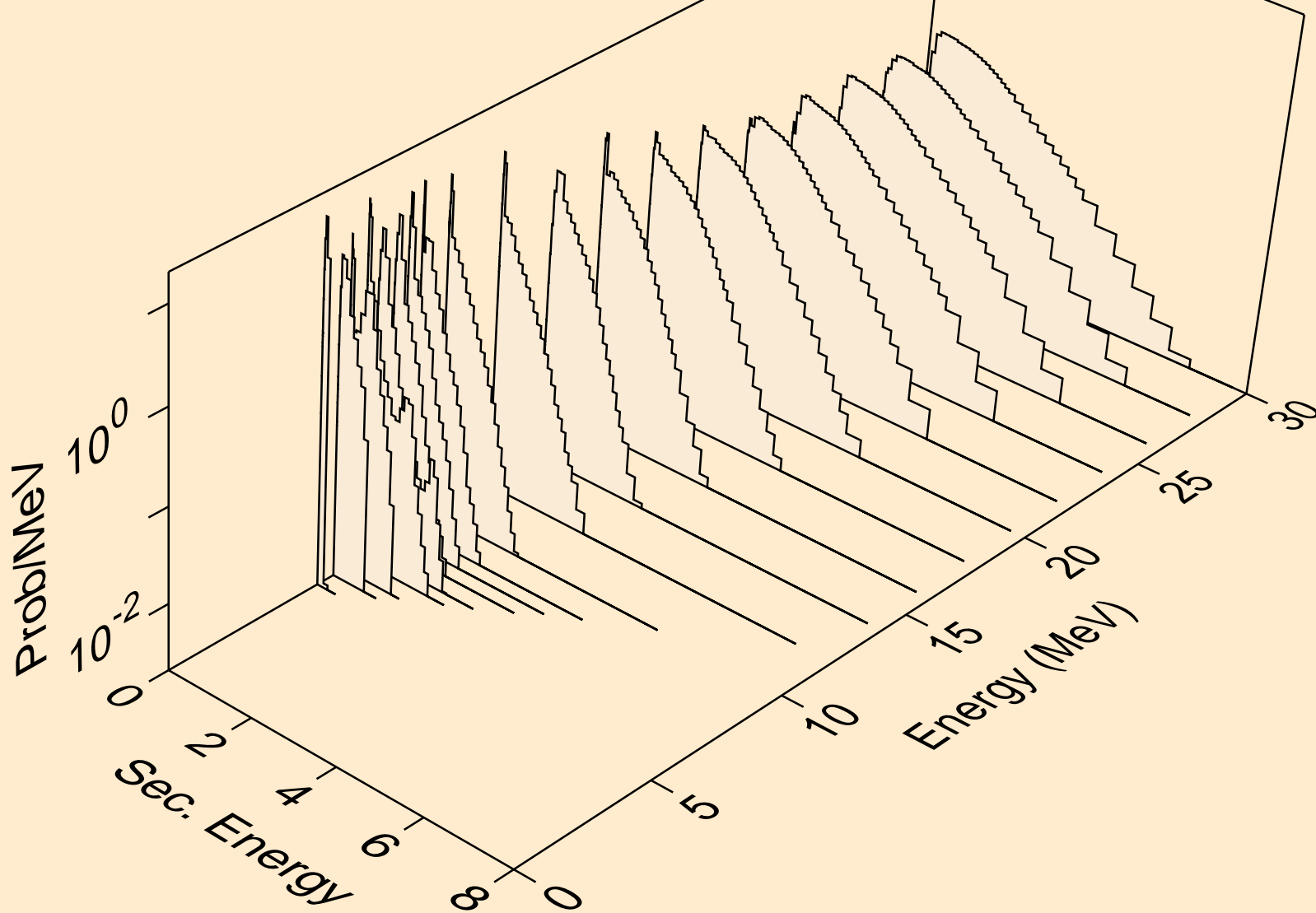




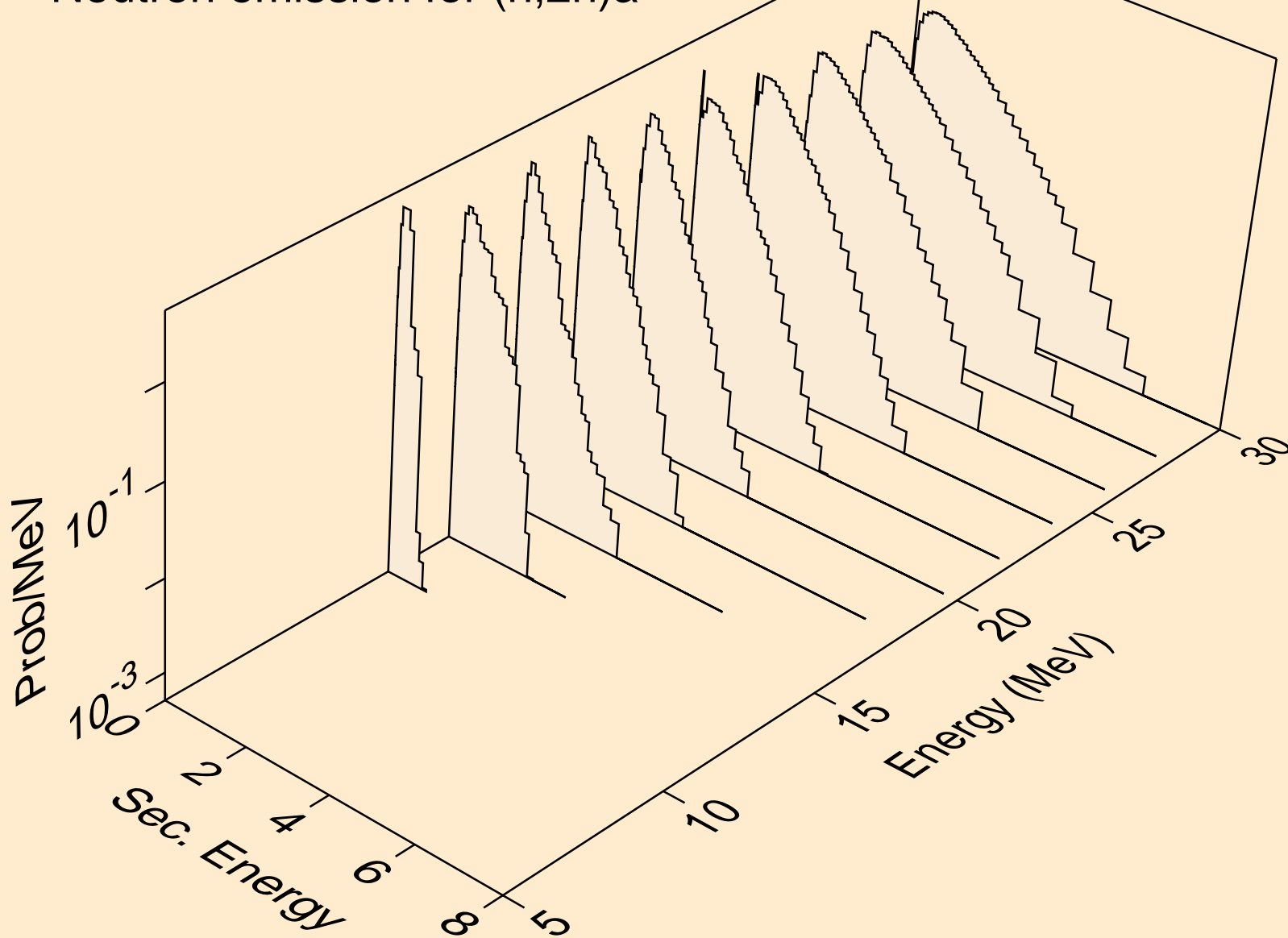
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



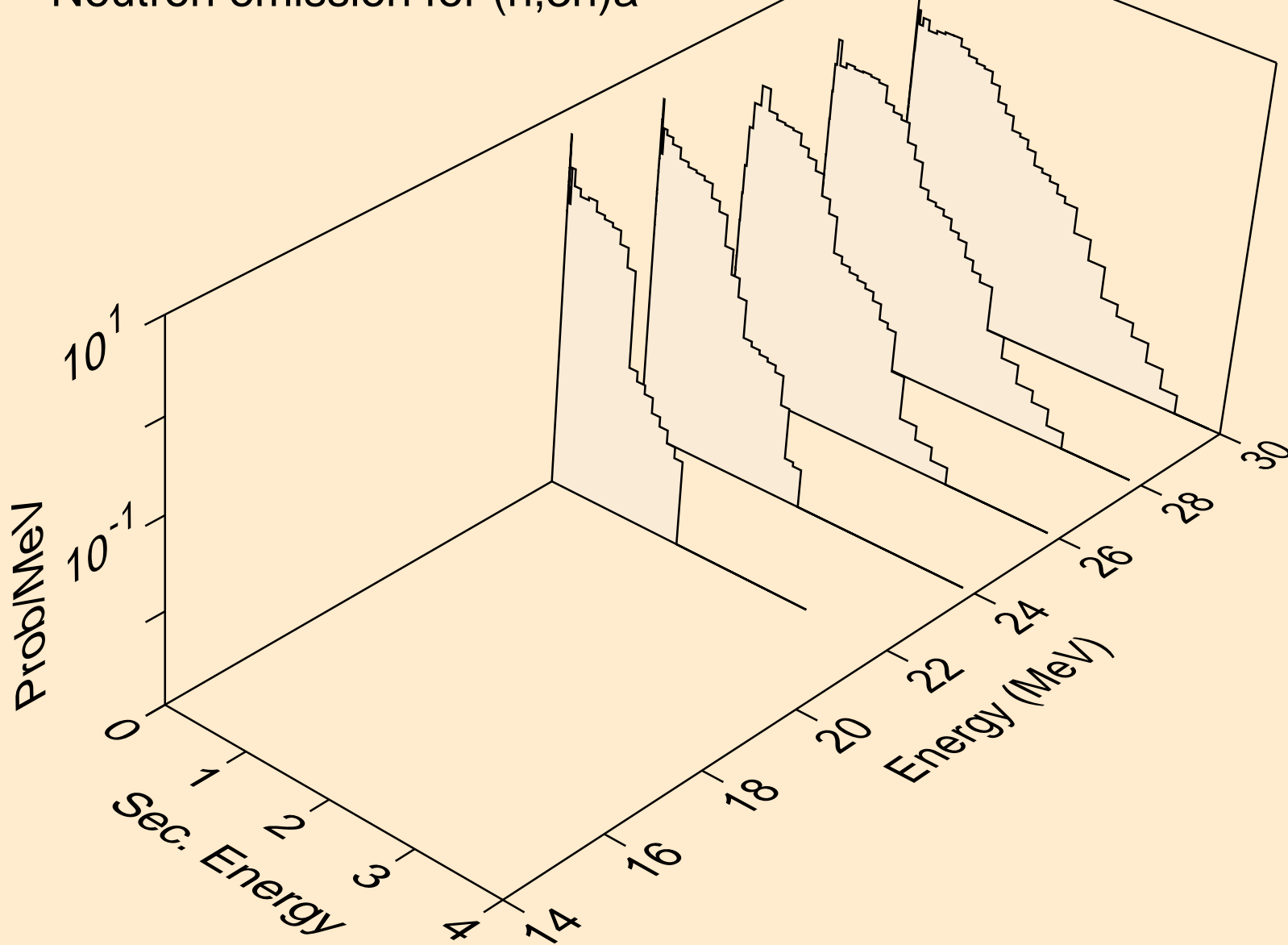
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



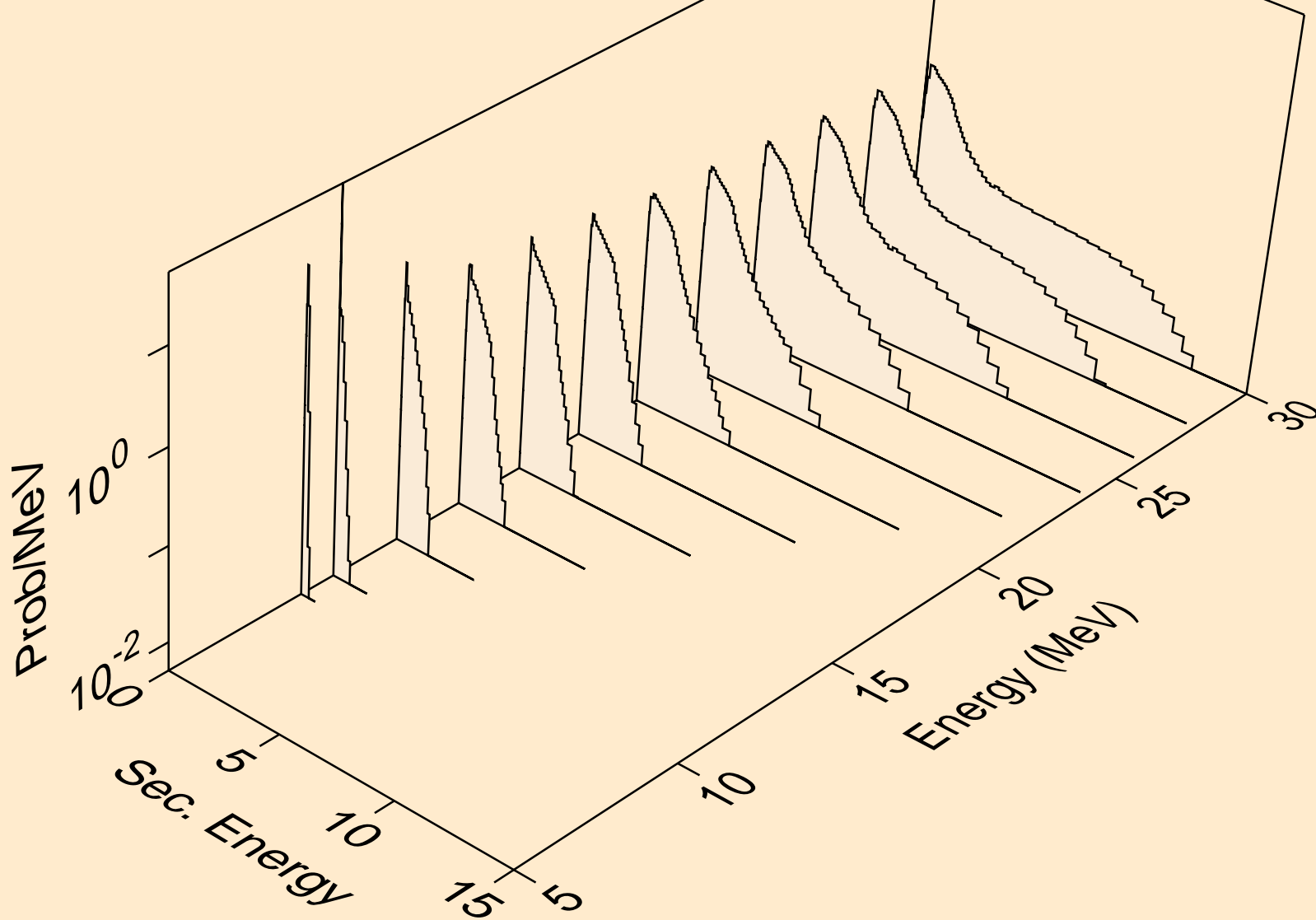
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Neutron emission for (n,2n)a



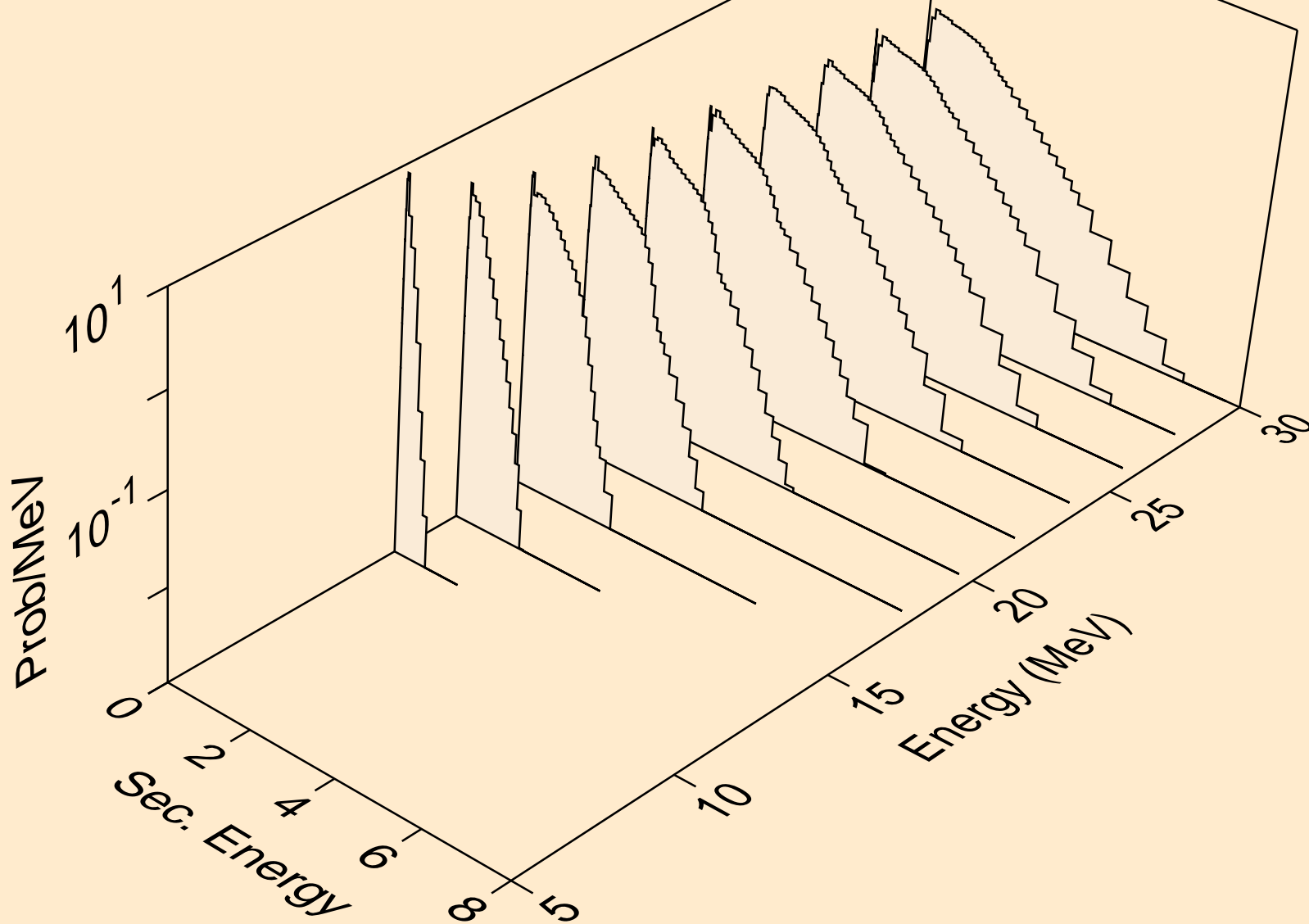
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Neutron emission for (n,3n)a



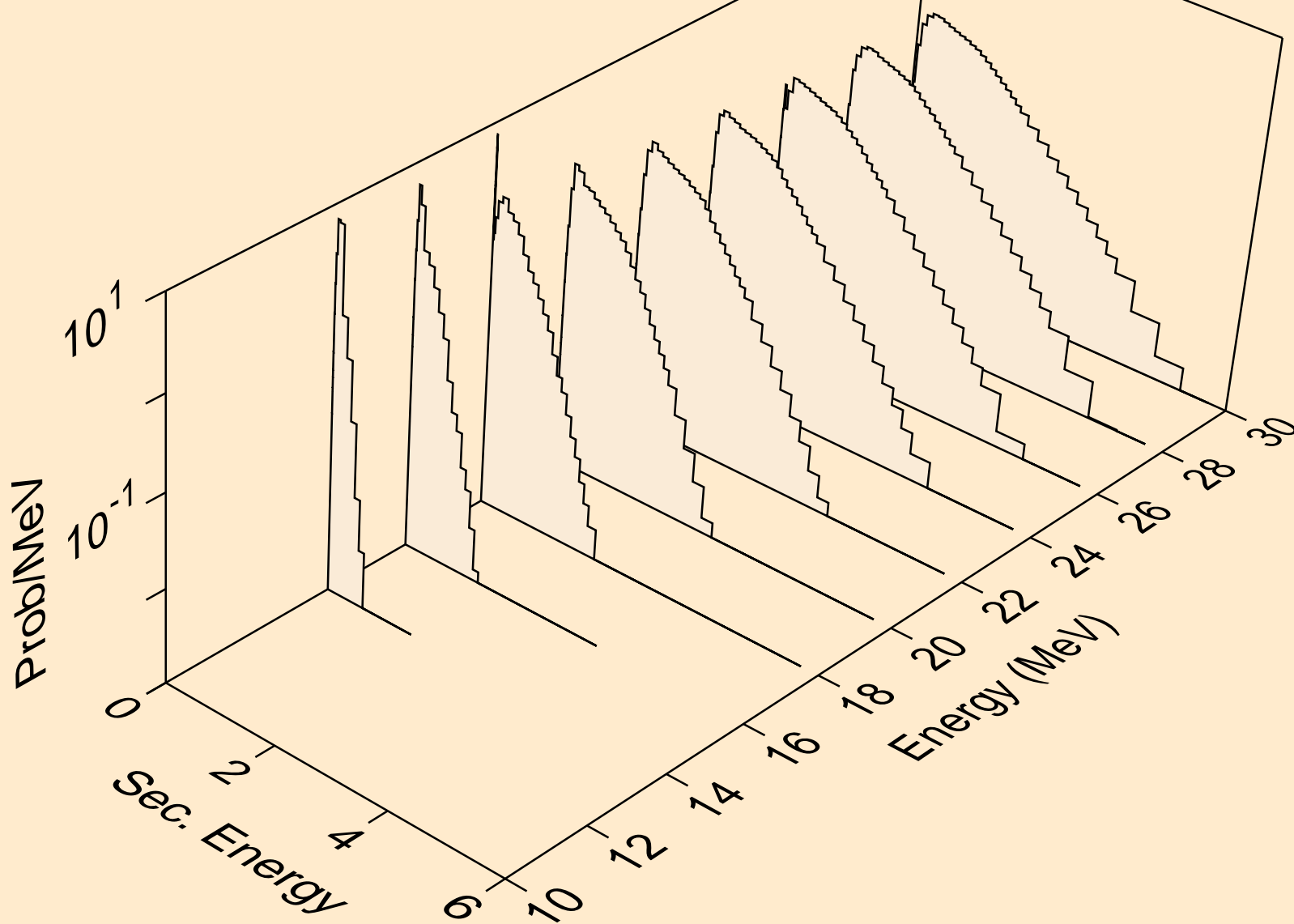
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Neutron emission for (n,n\*)p



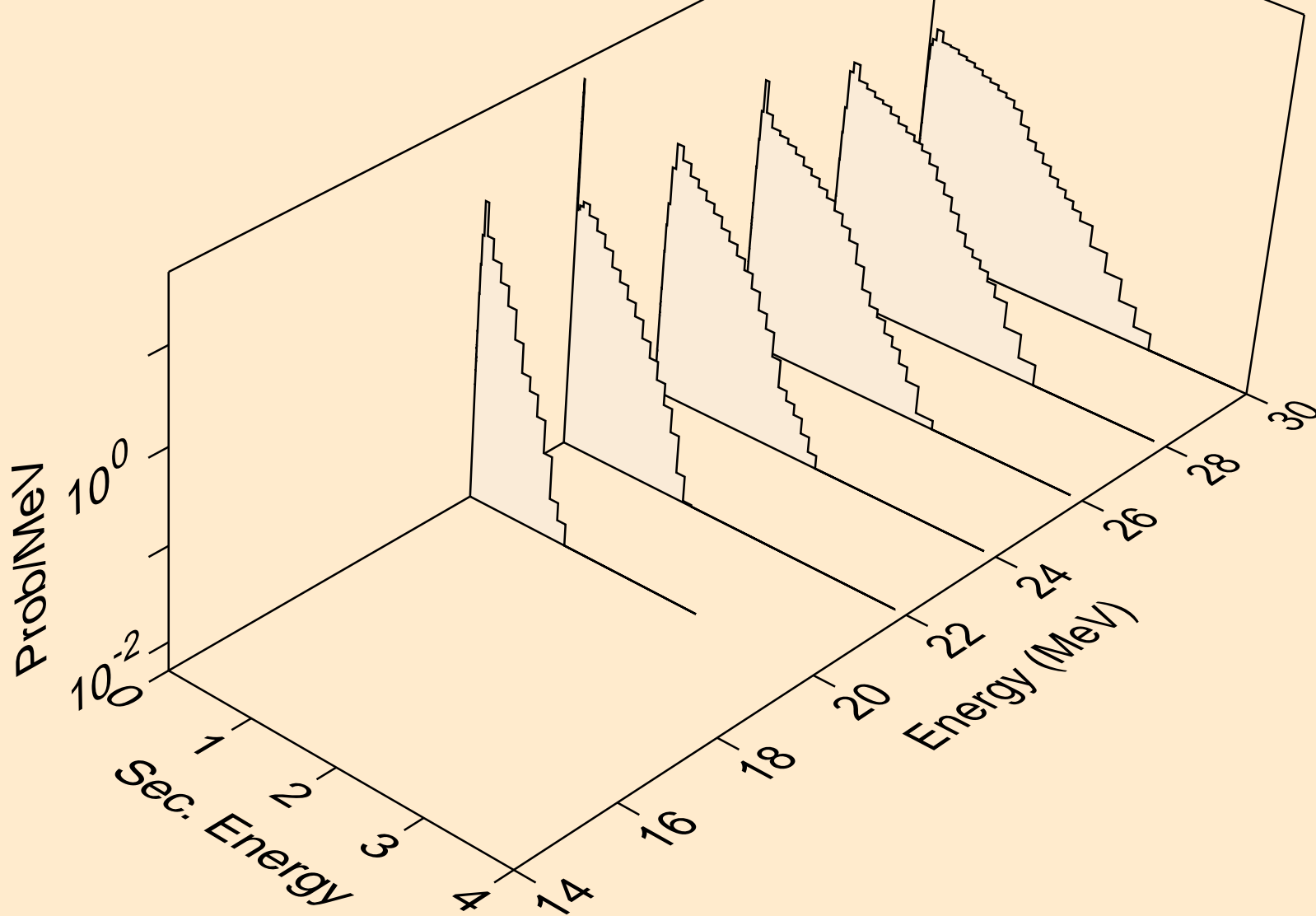
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t

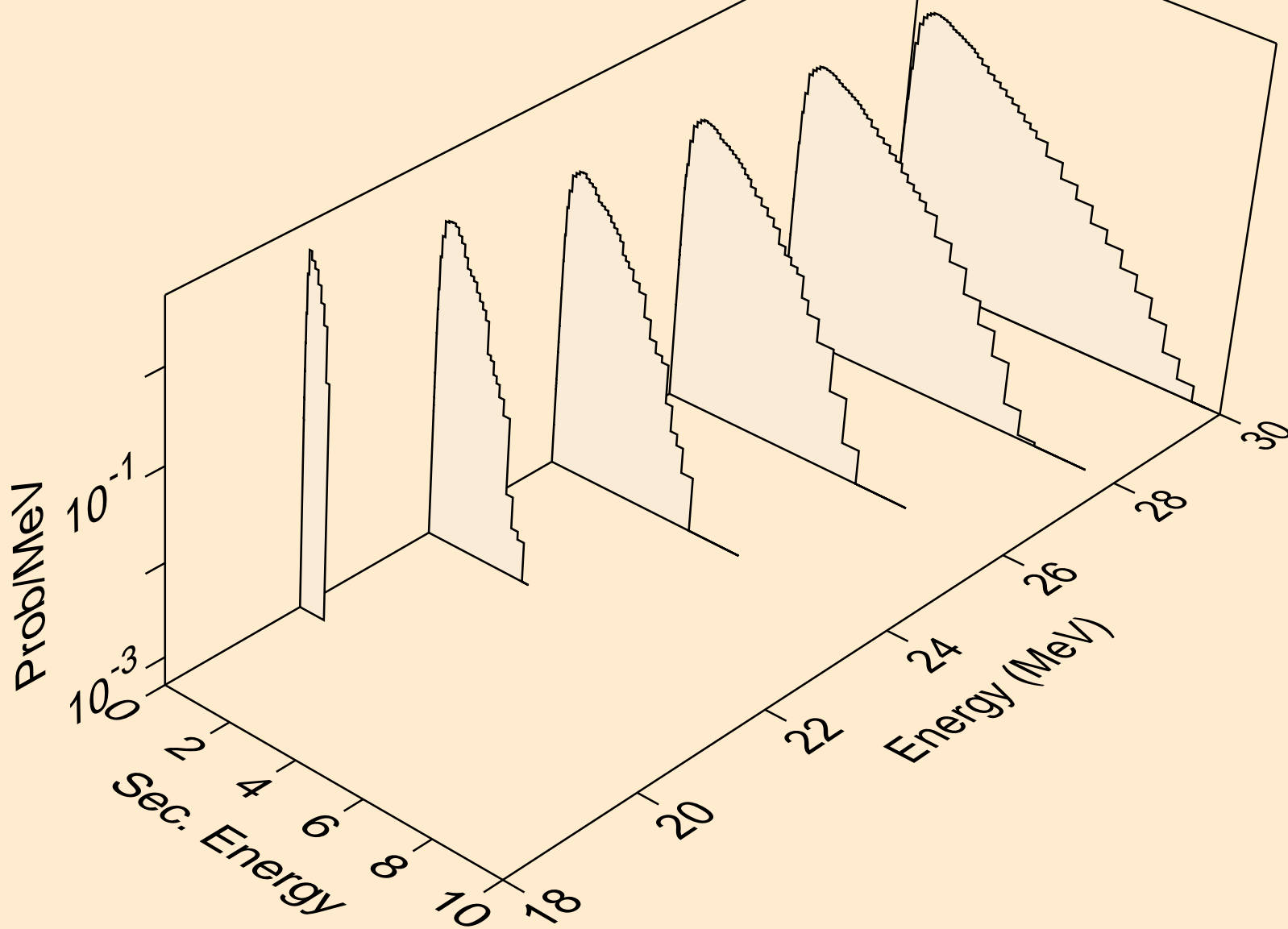


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

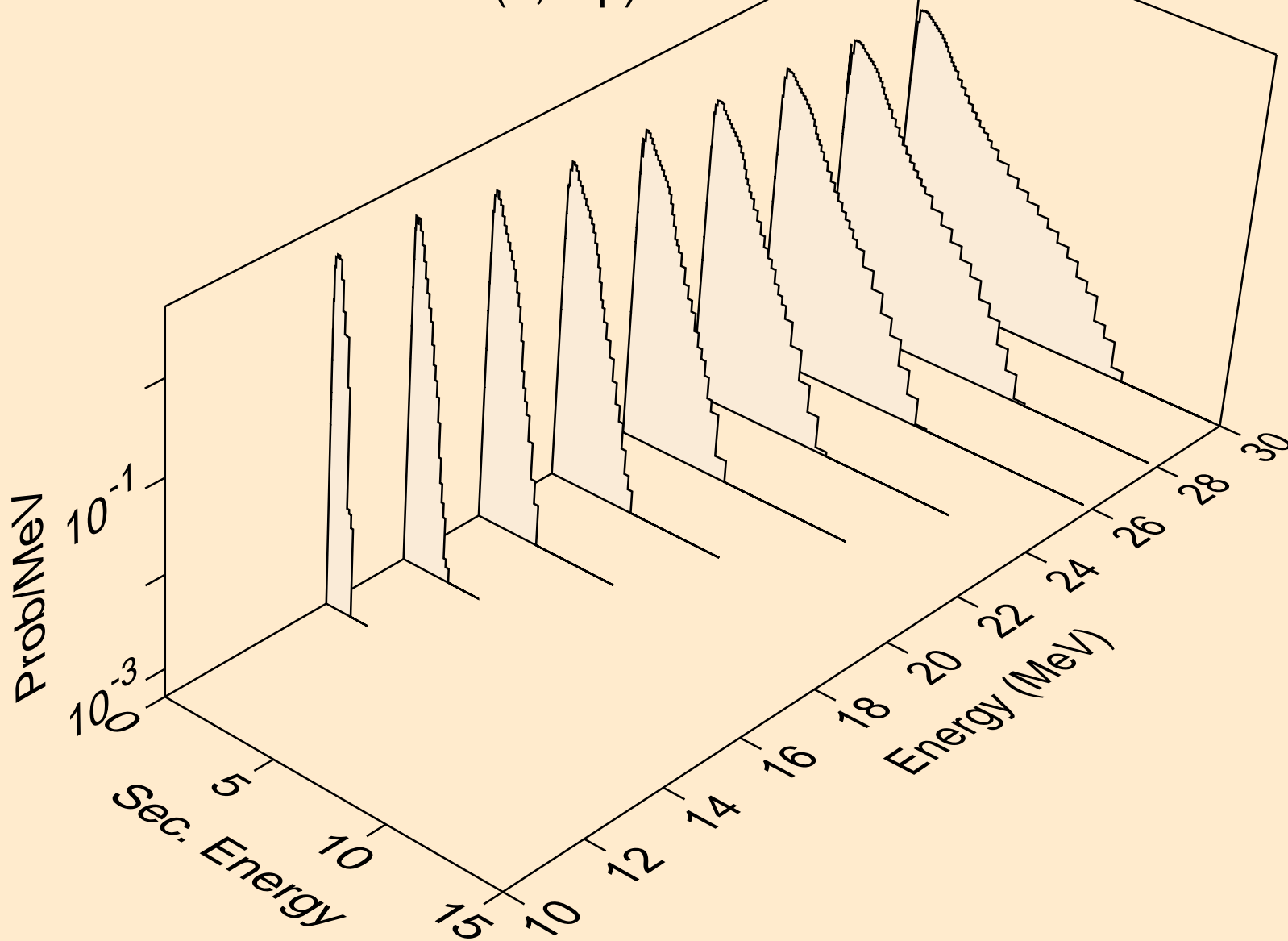




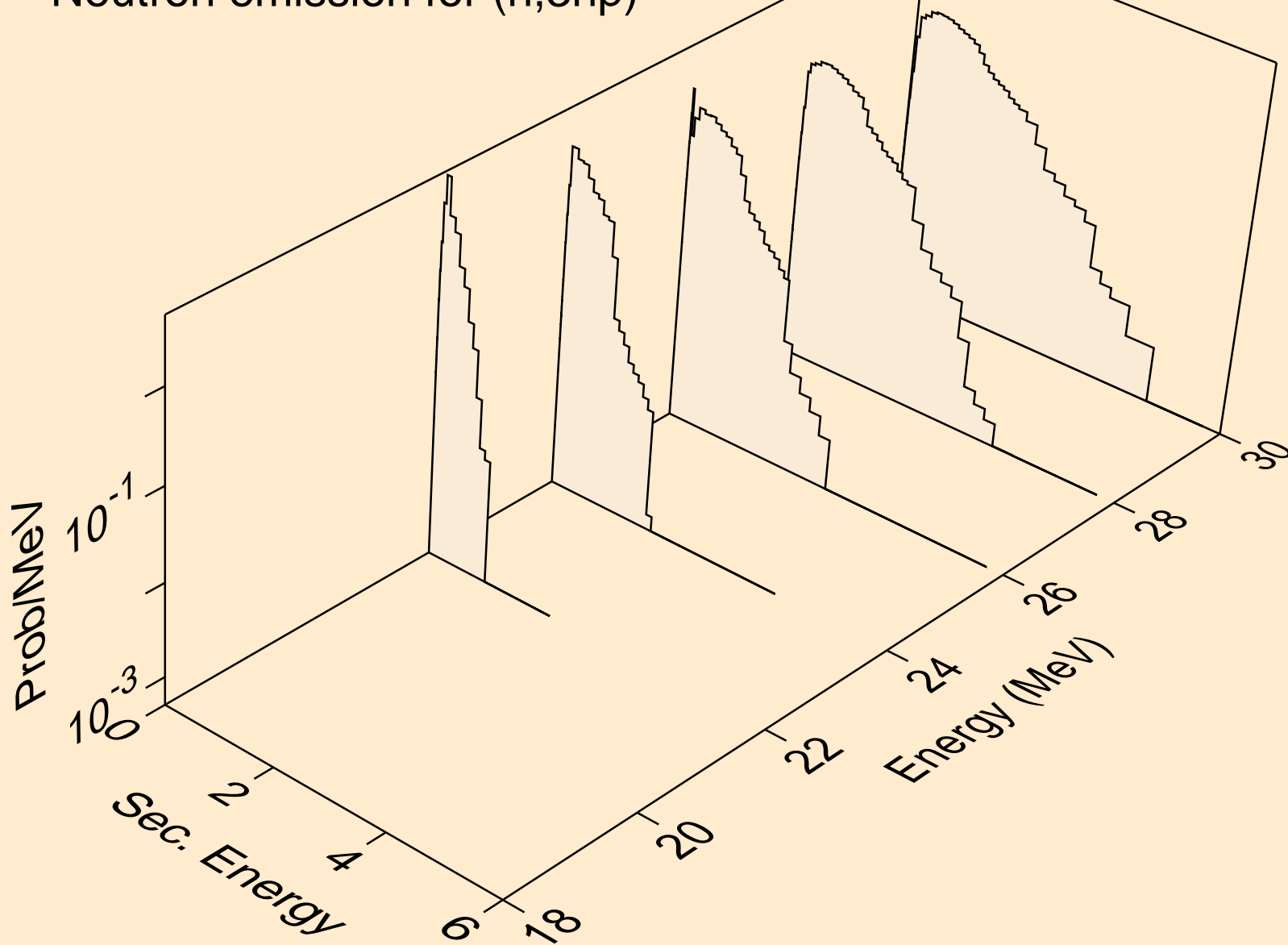
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Neutron emission for (n,4n)



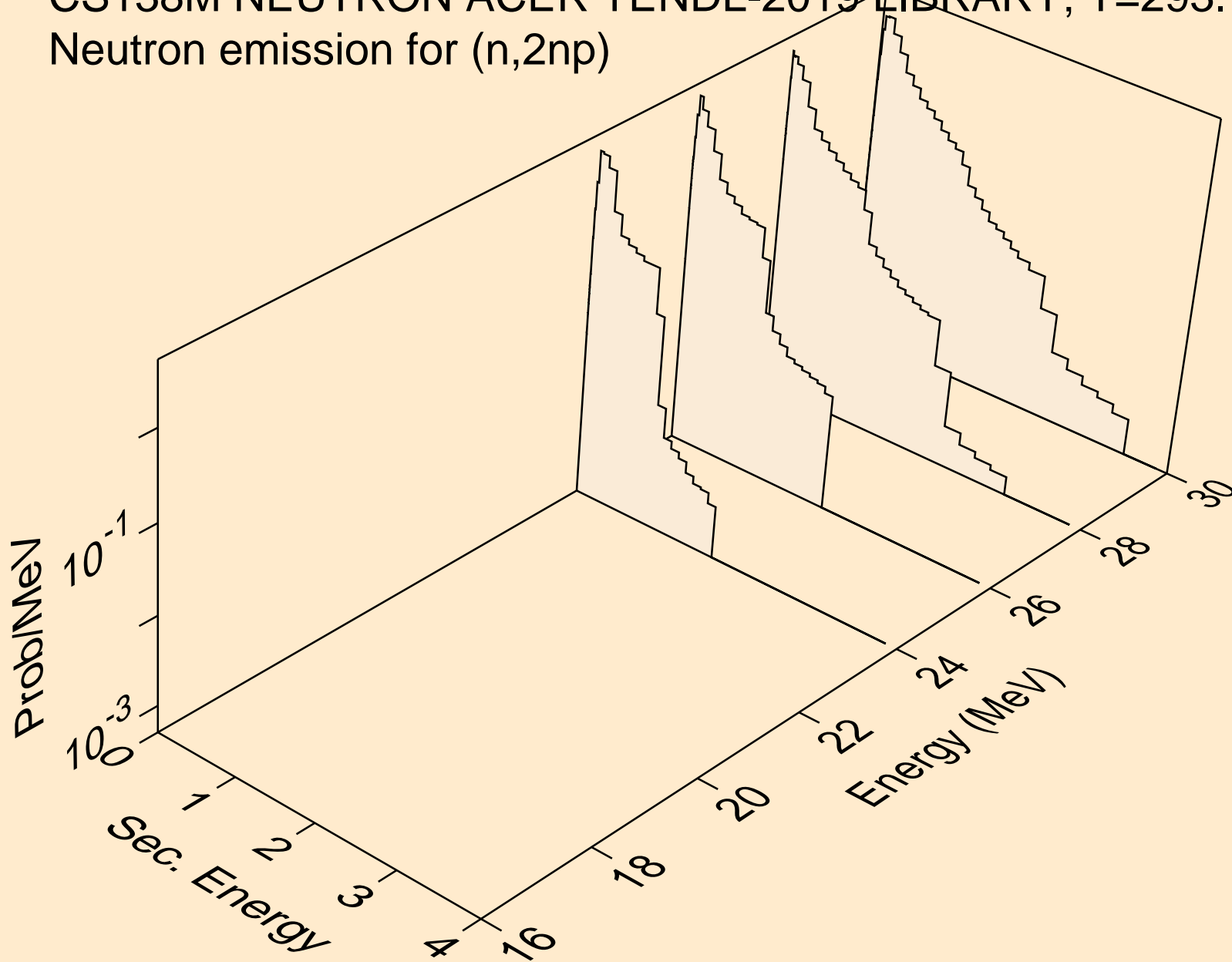
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Neutron emission for (n,2np)



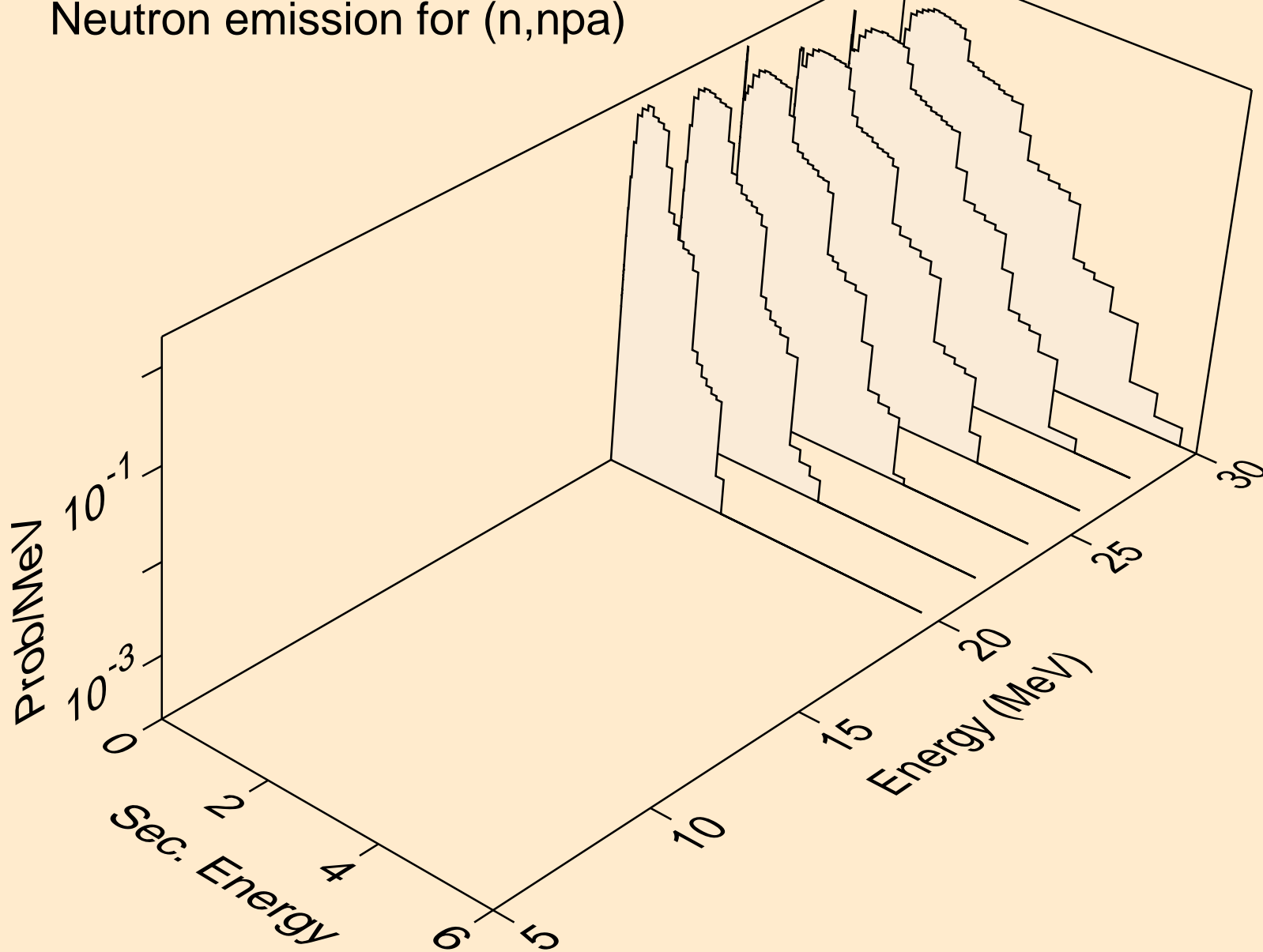
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



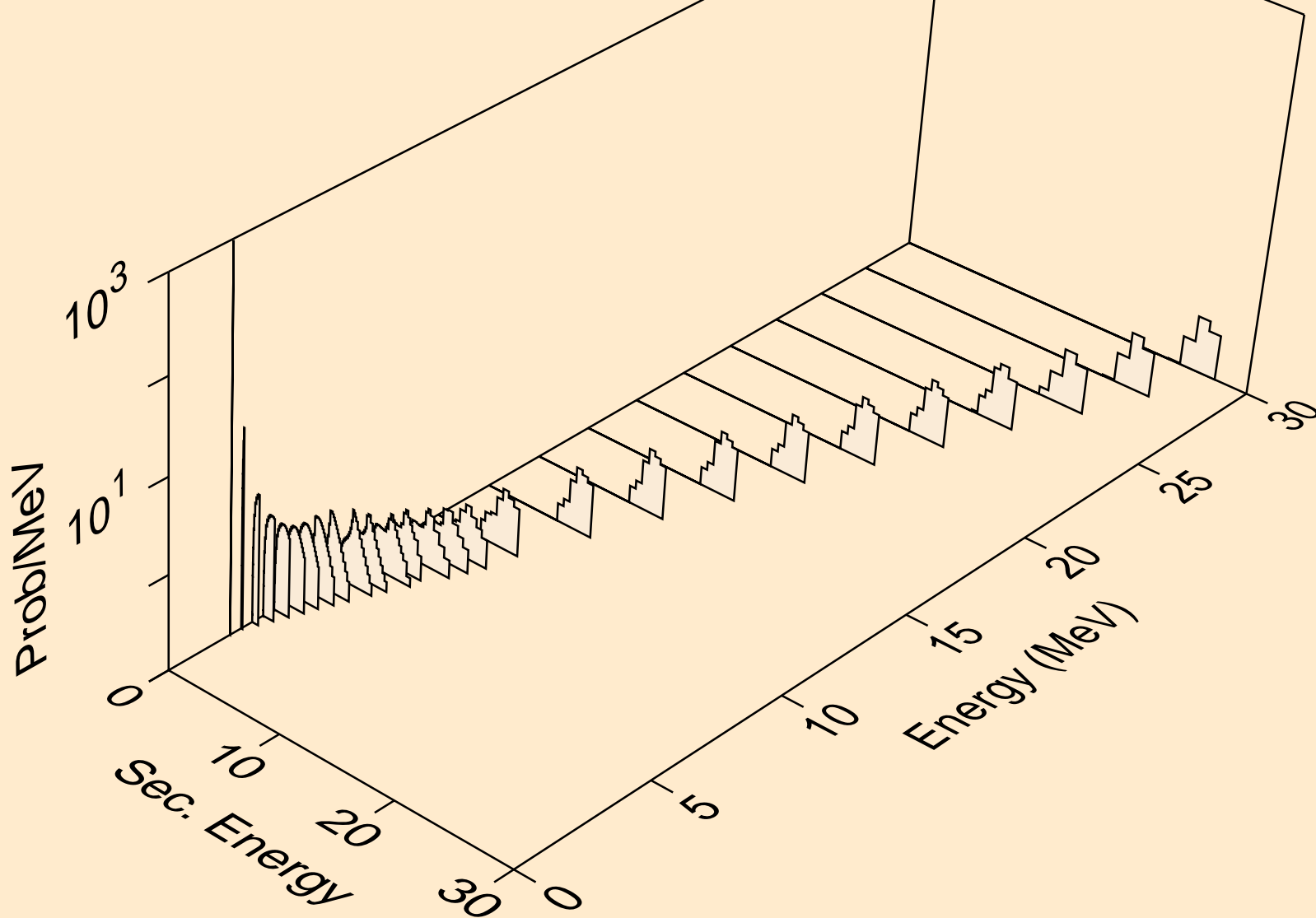
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



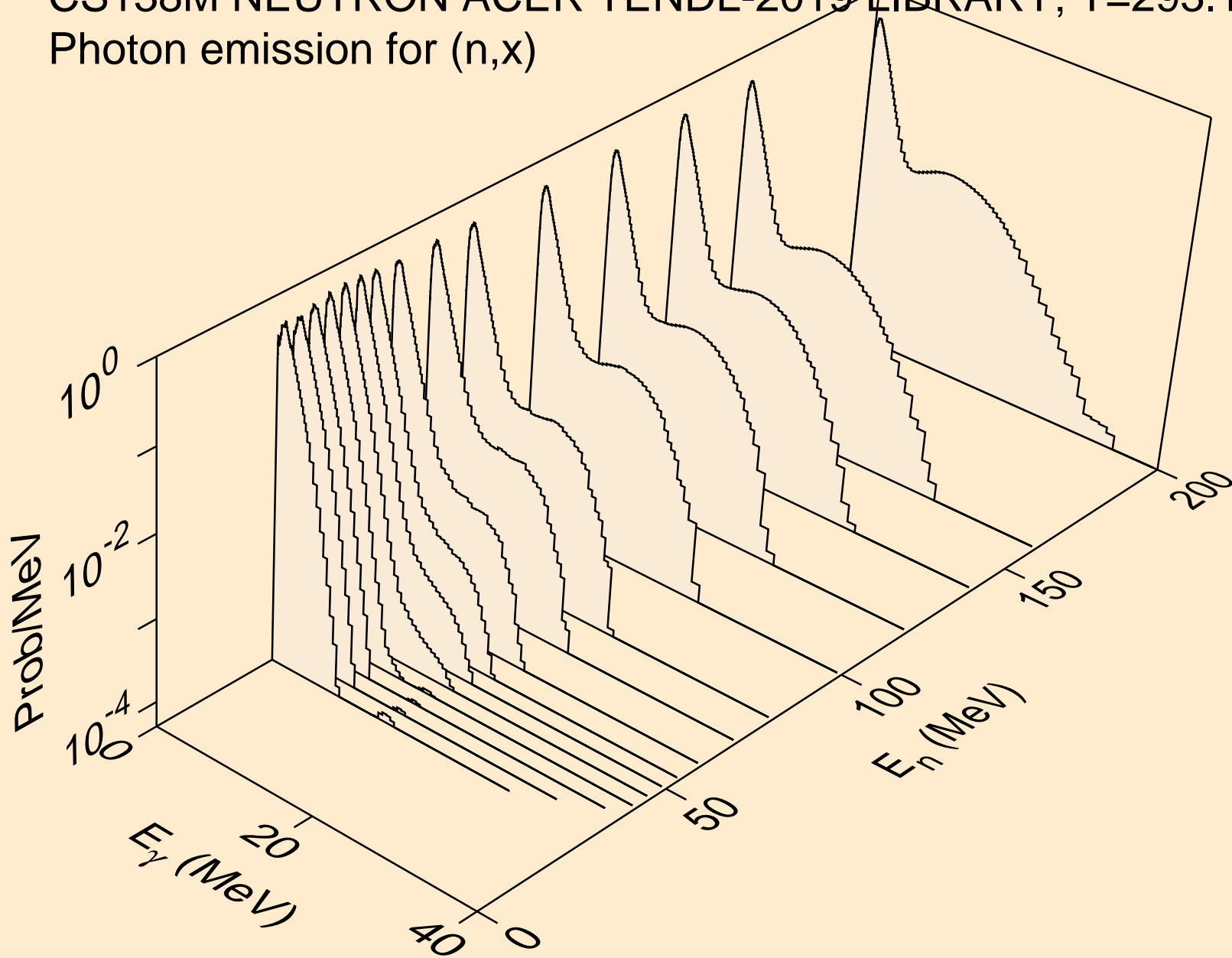
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Neutron emission for (n,npa)



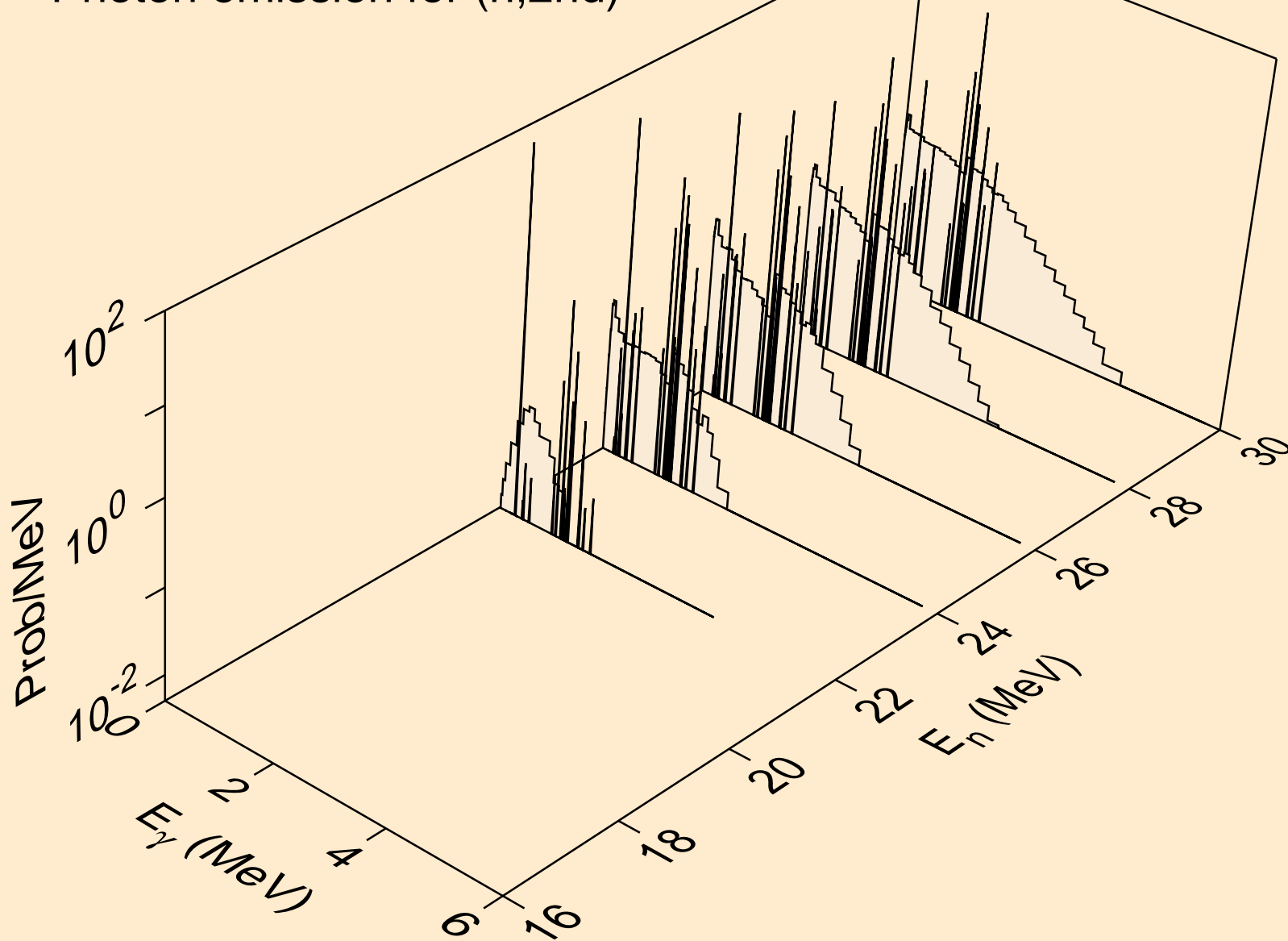
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

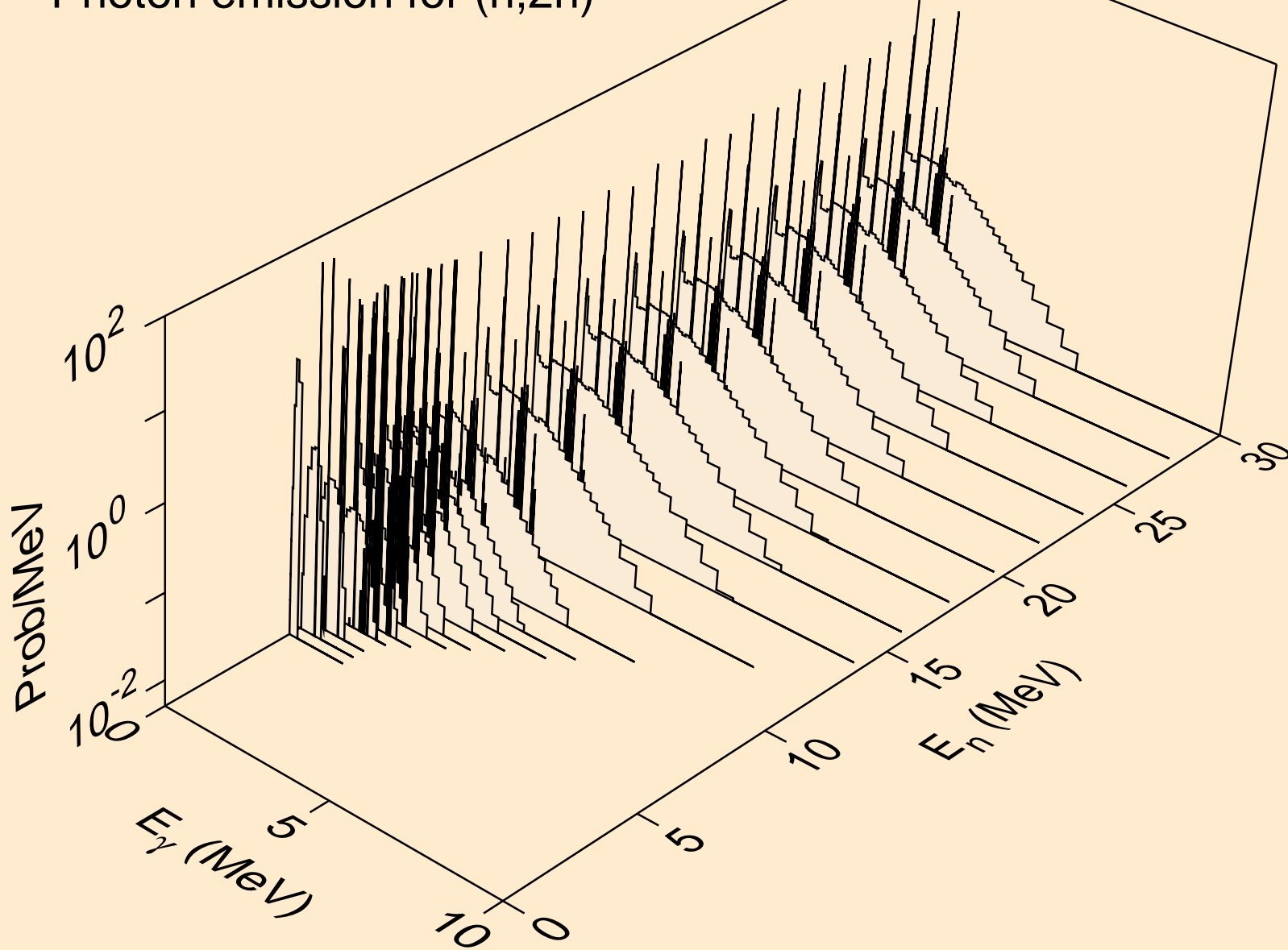


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Photon emission for (n,2nd)

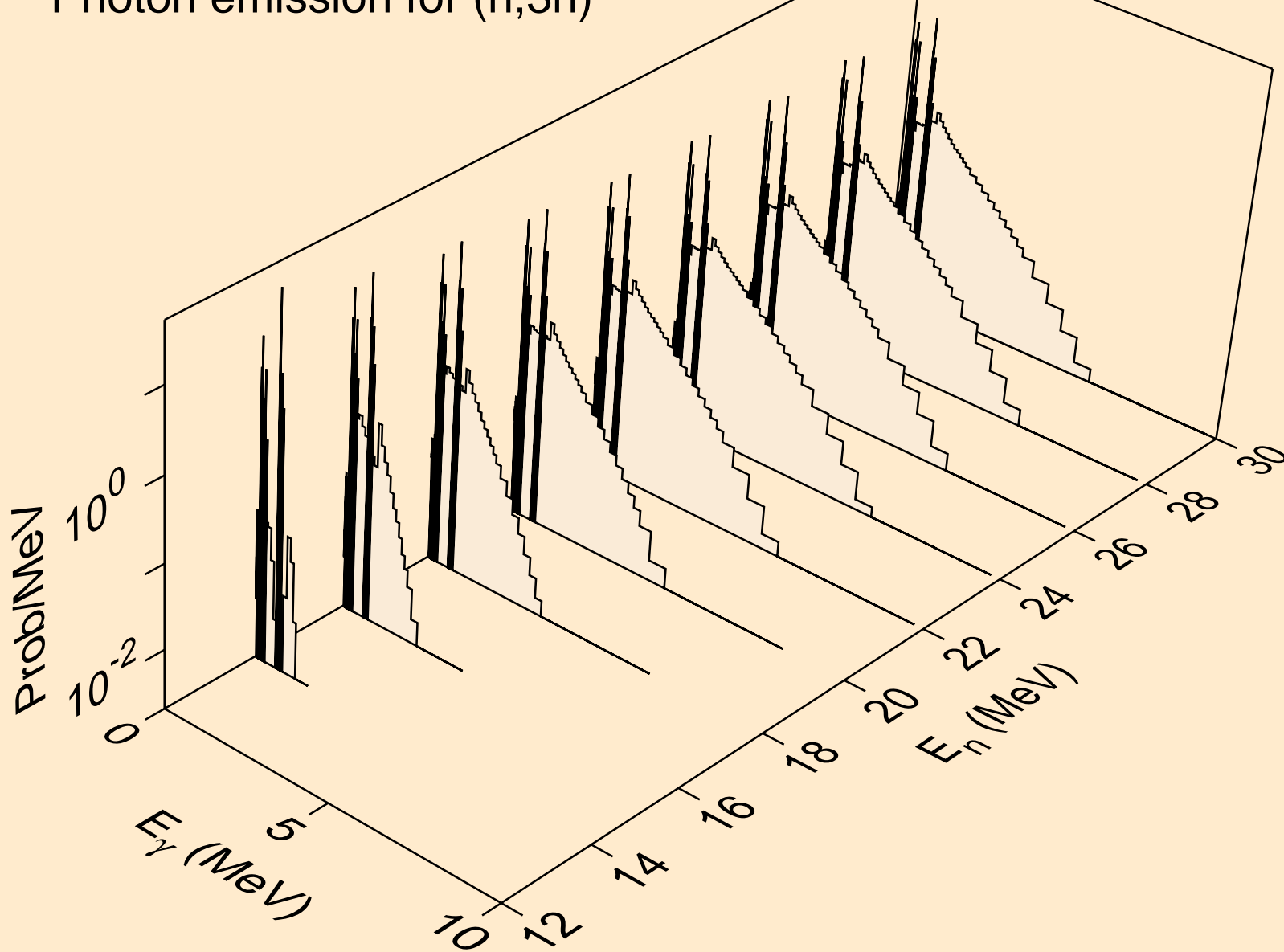




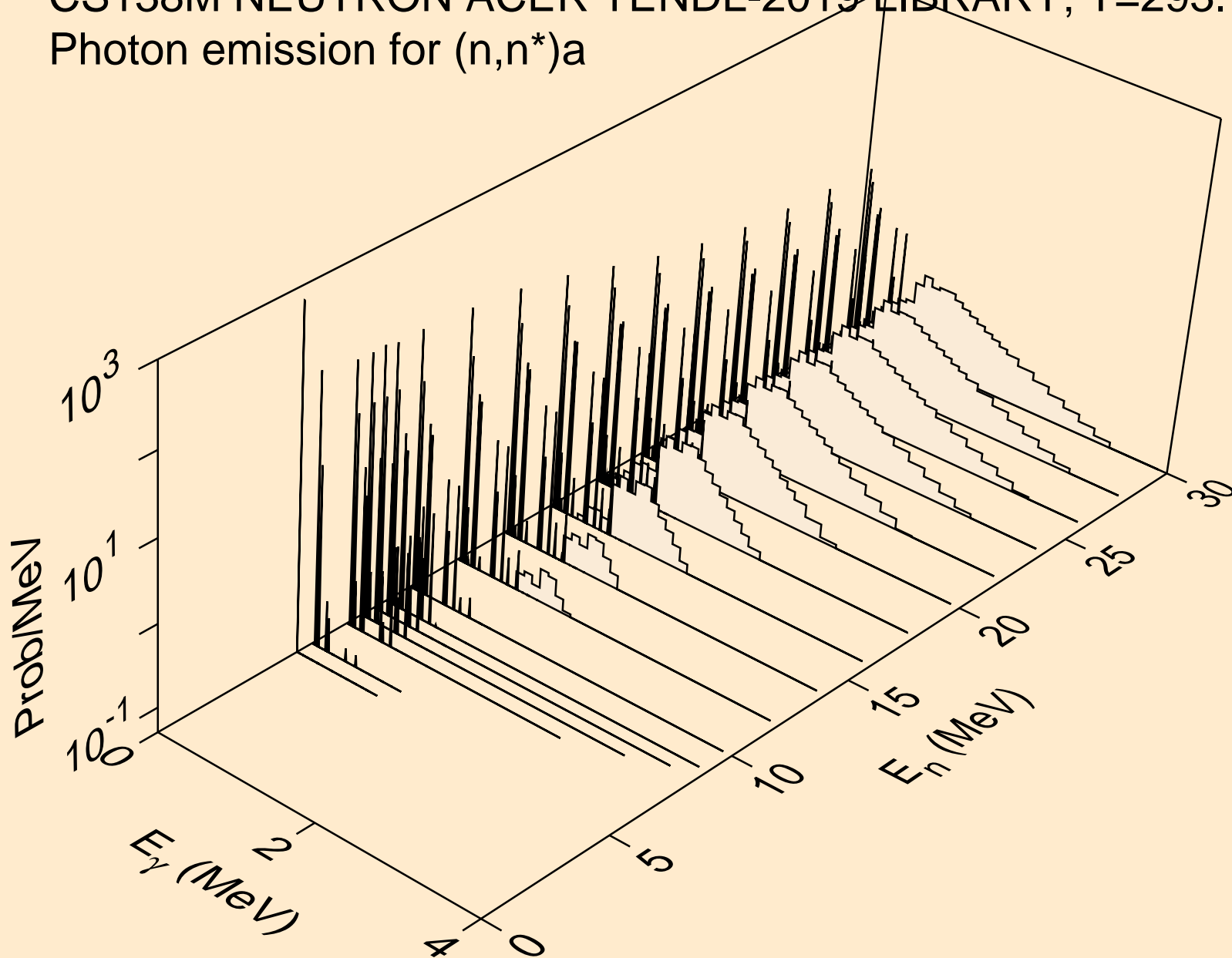
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Photon emission for (n,2n)



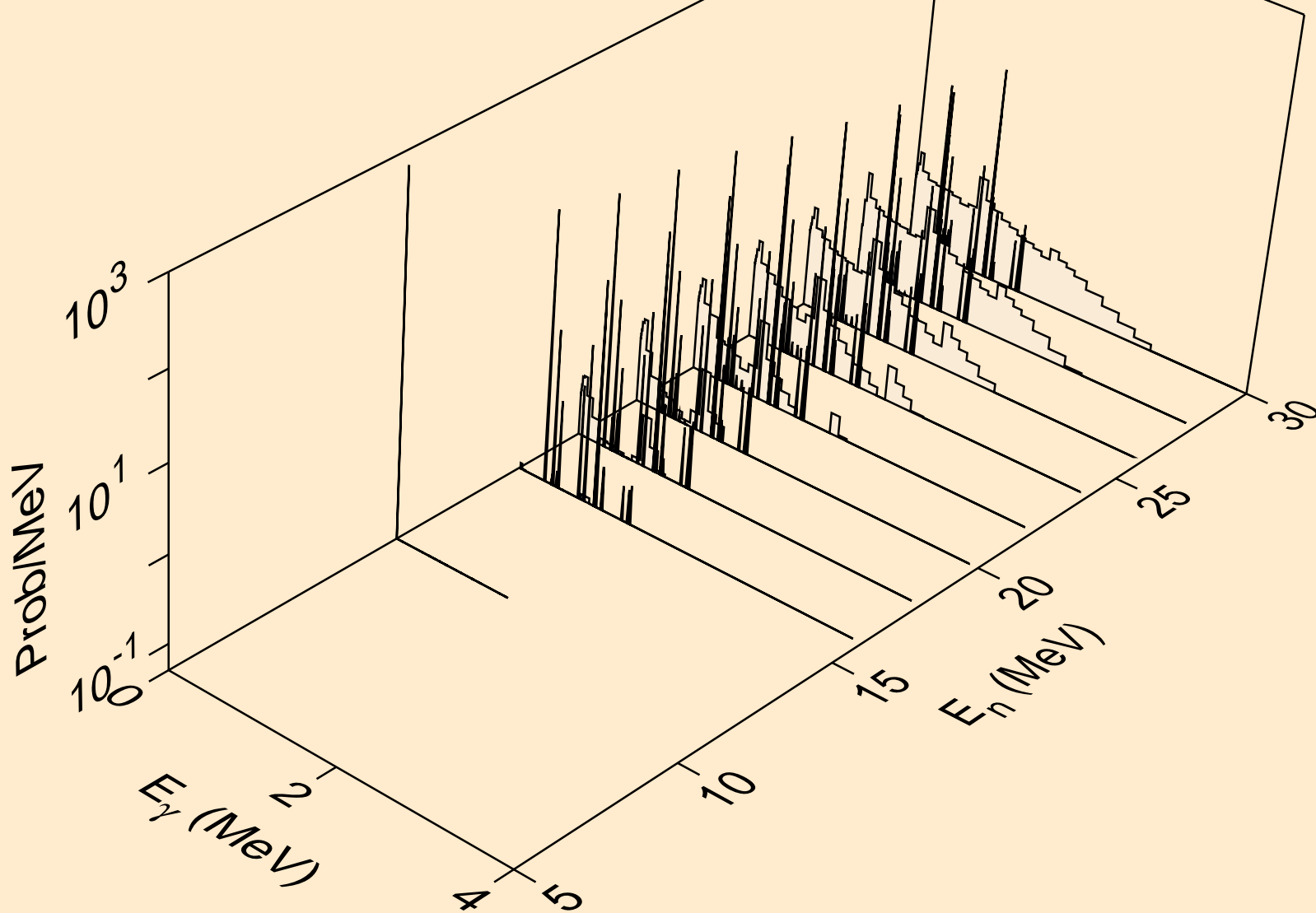
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Photon emission for (n,3n)



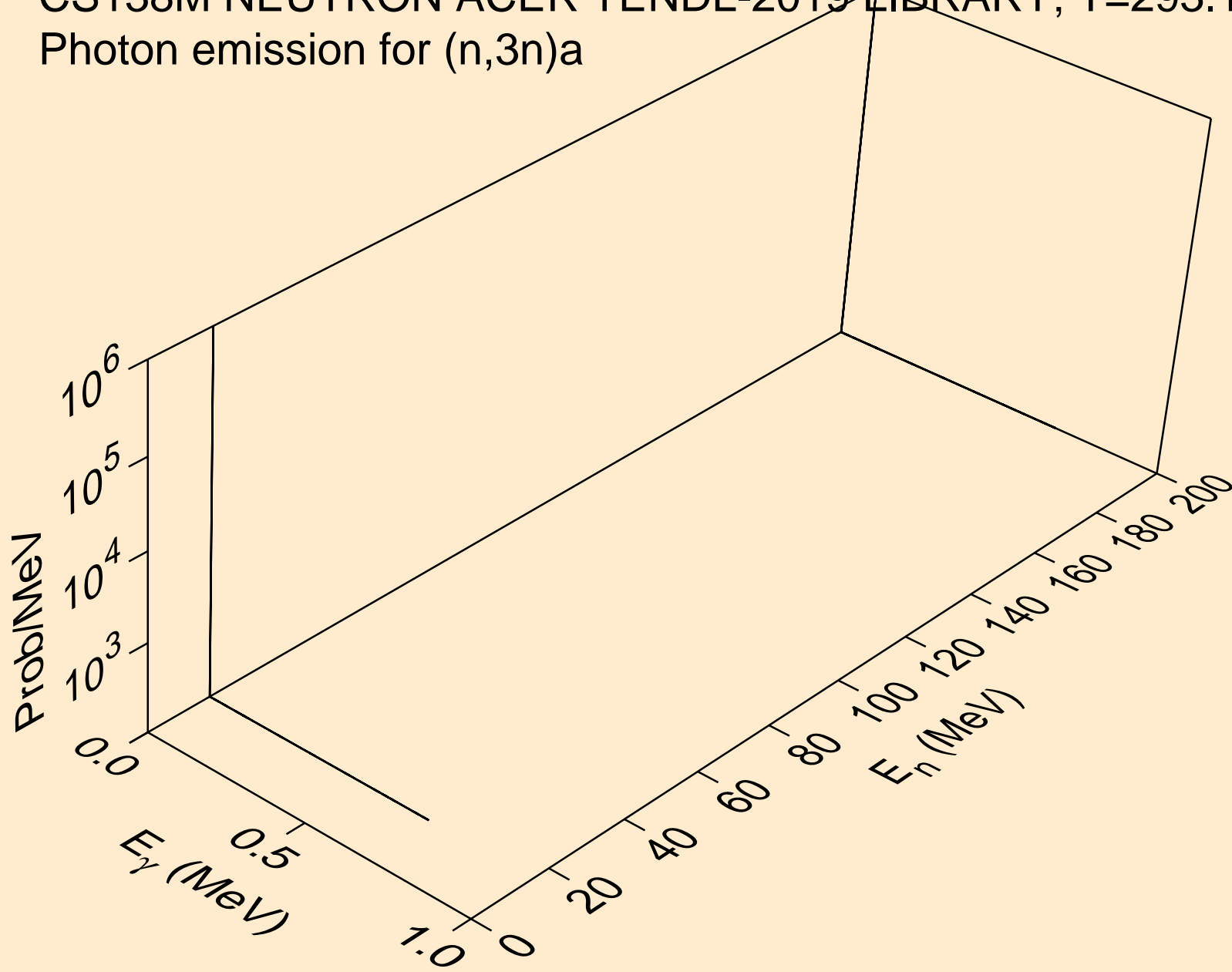
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Photon emission for (n,n\*)a



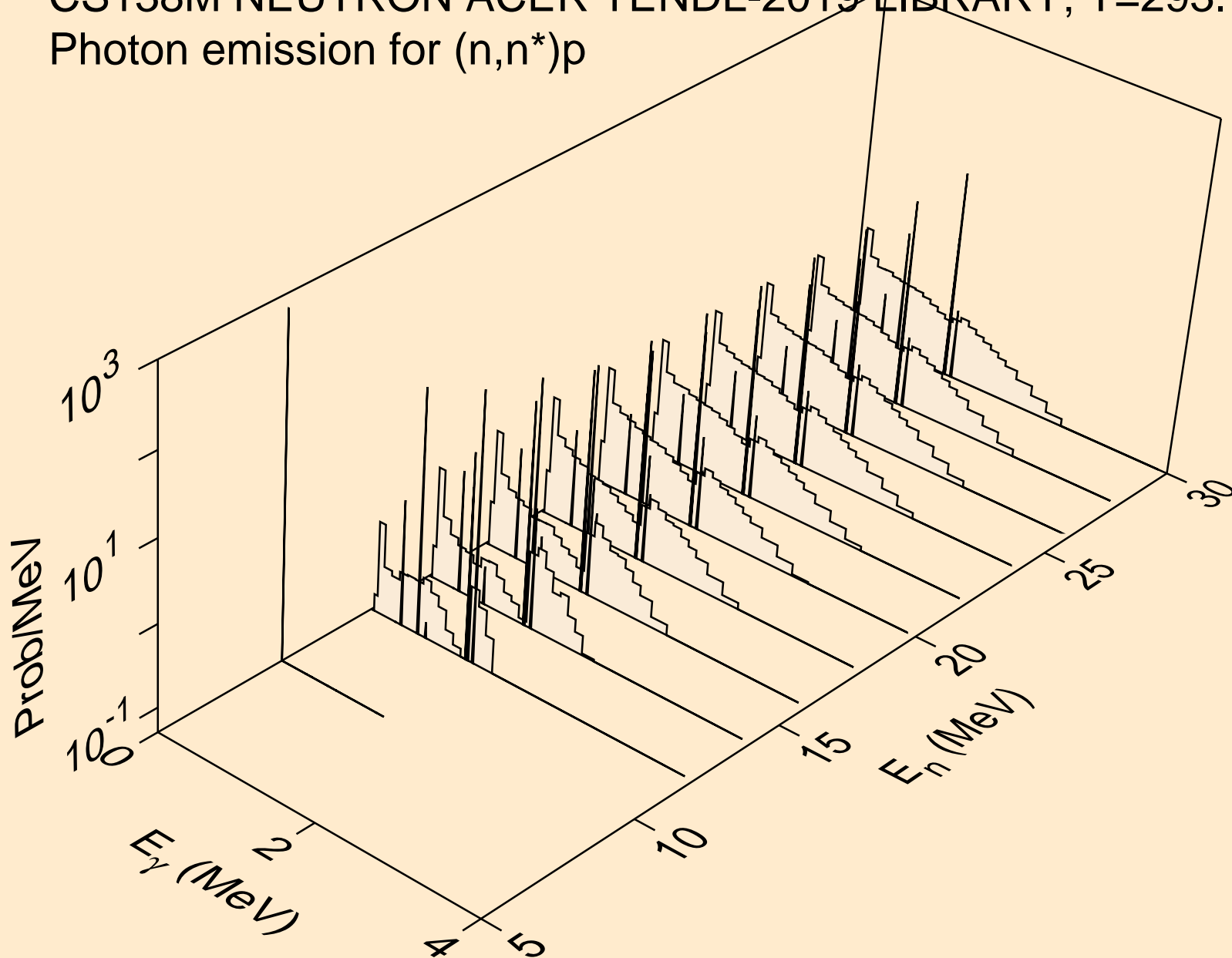
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Photon emission for (n,2n)a



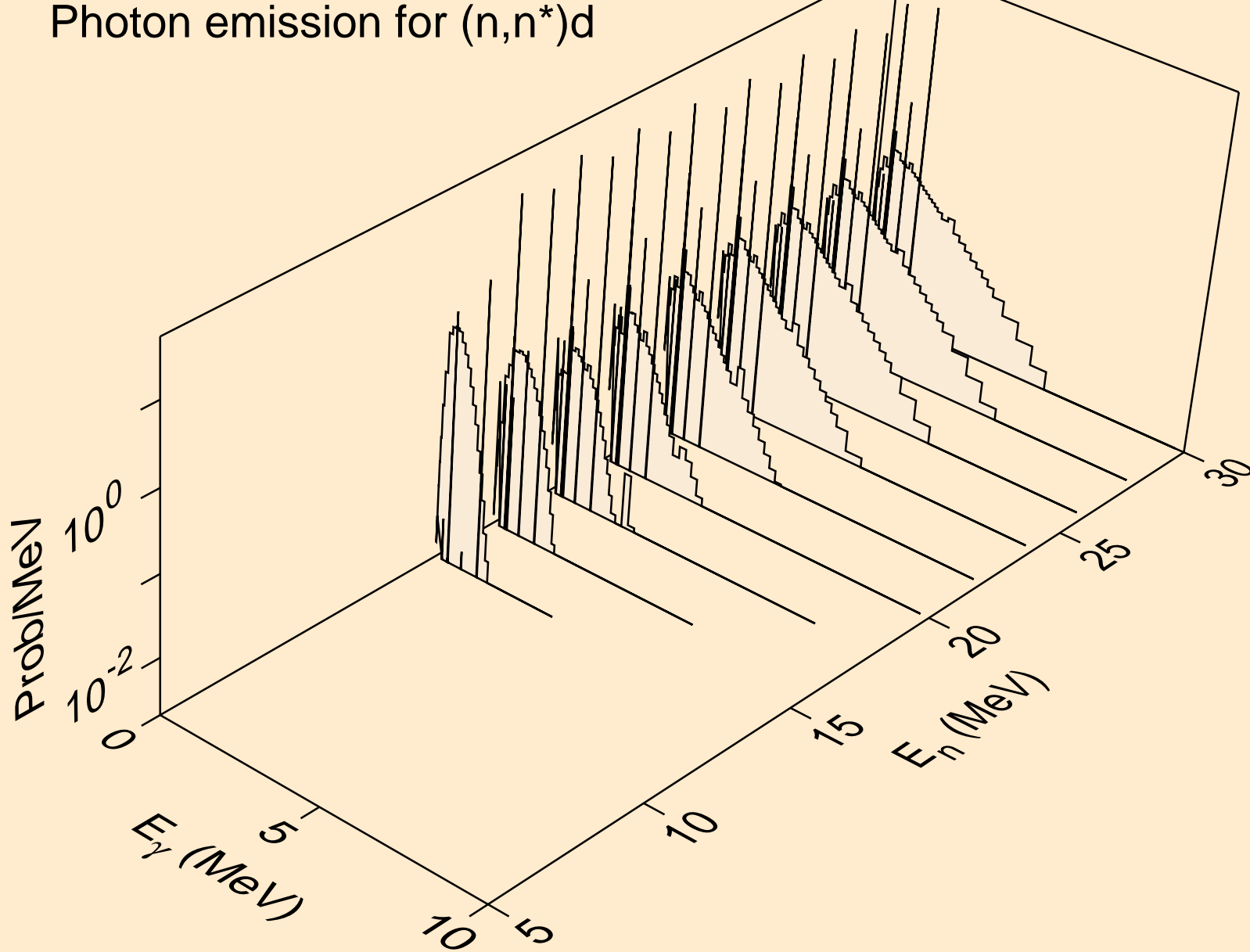
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Photon emission for (n,3n)a



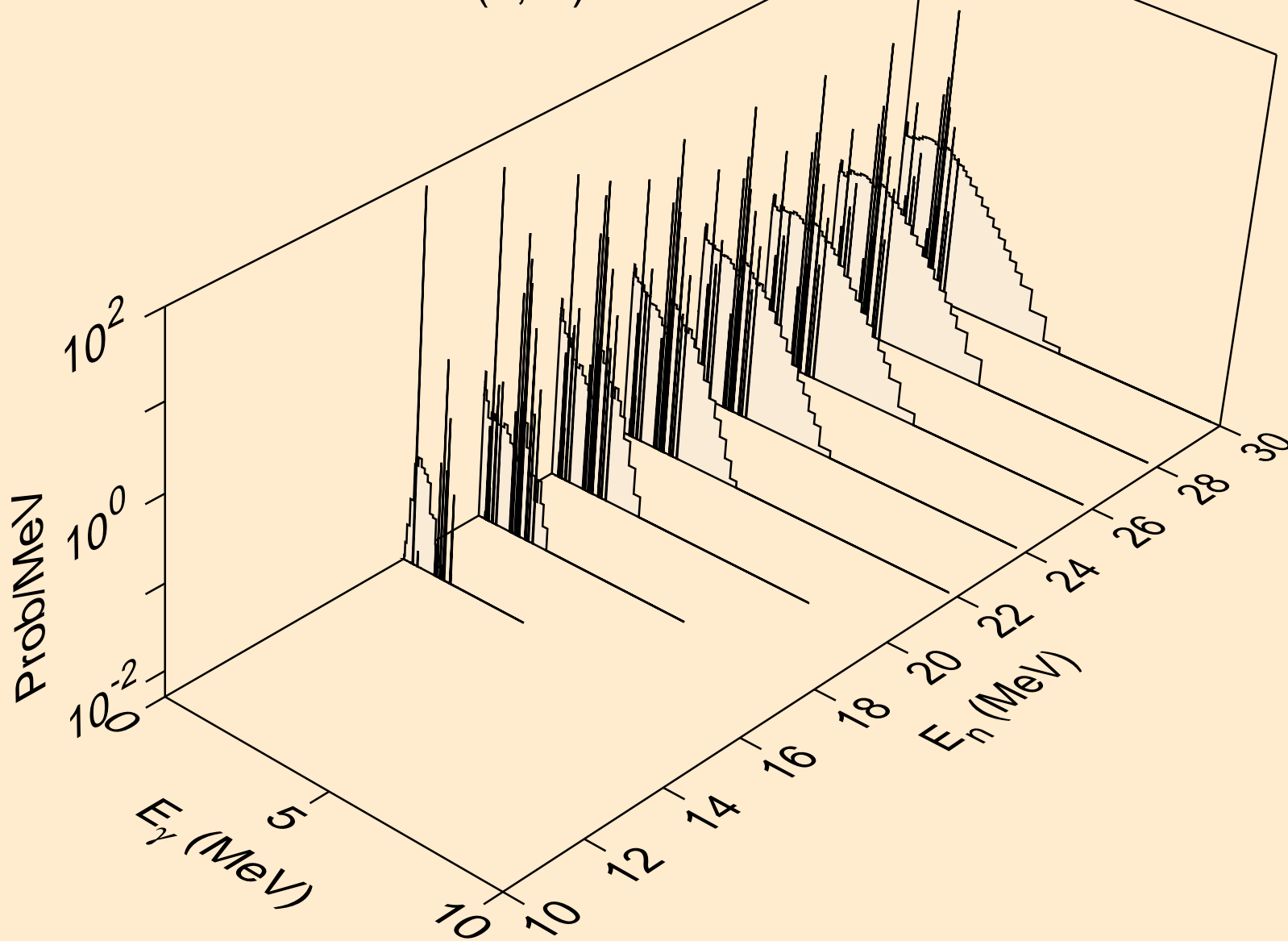
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d

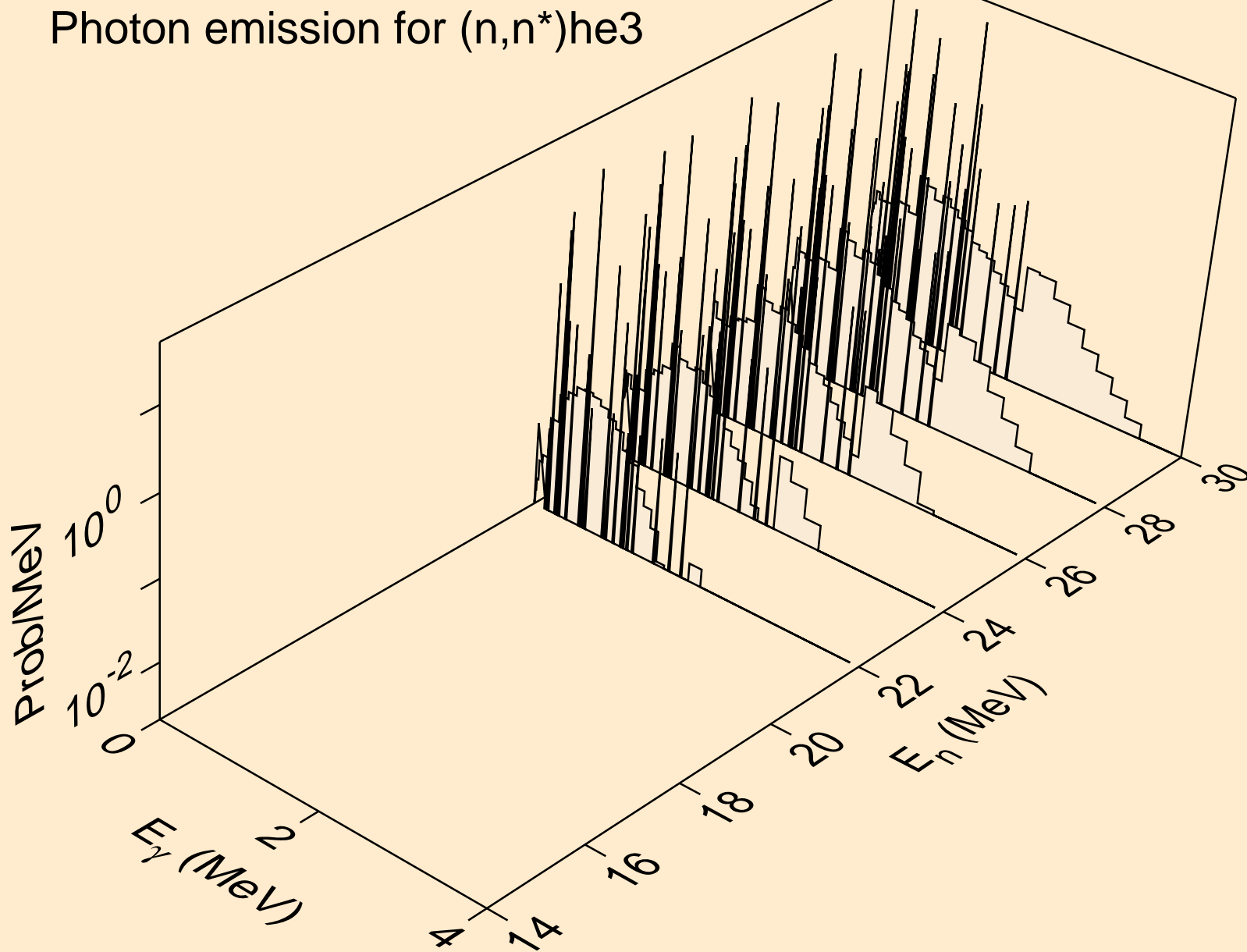


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Photon emission for (n,n\*)t

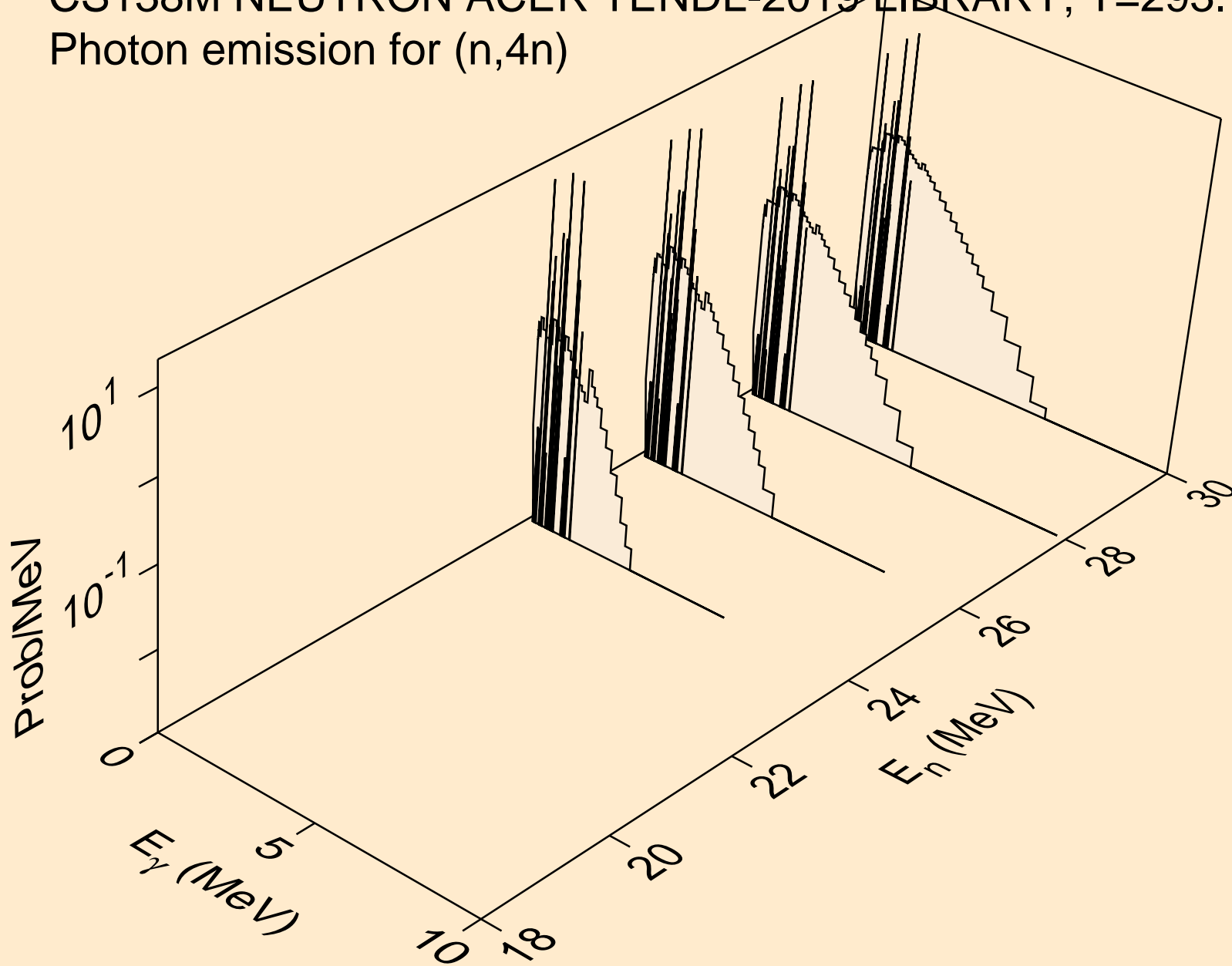




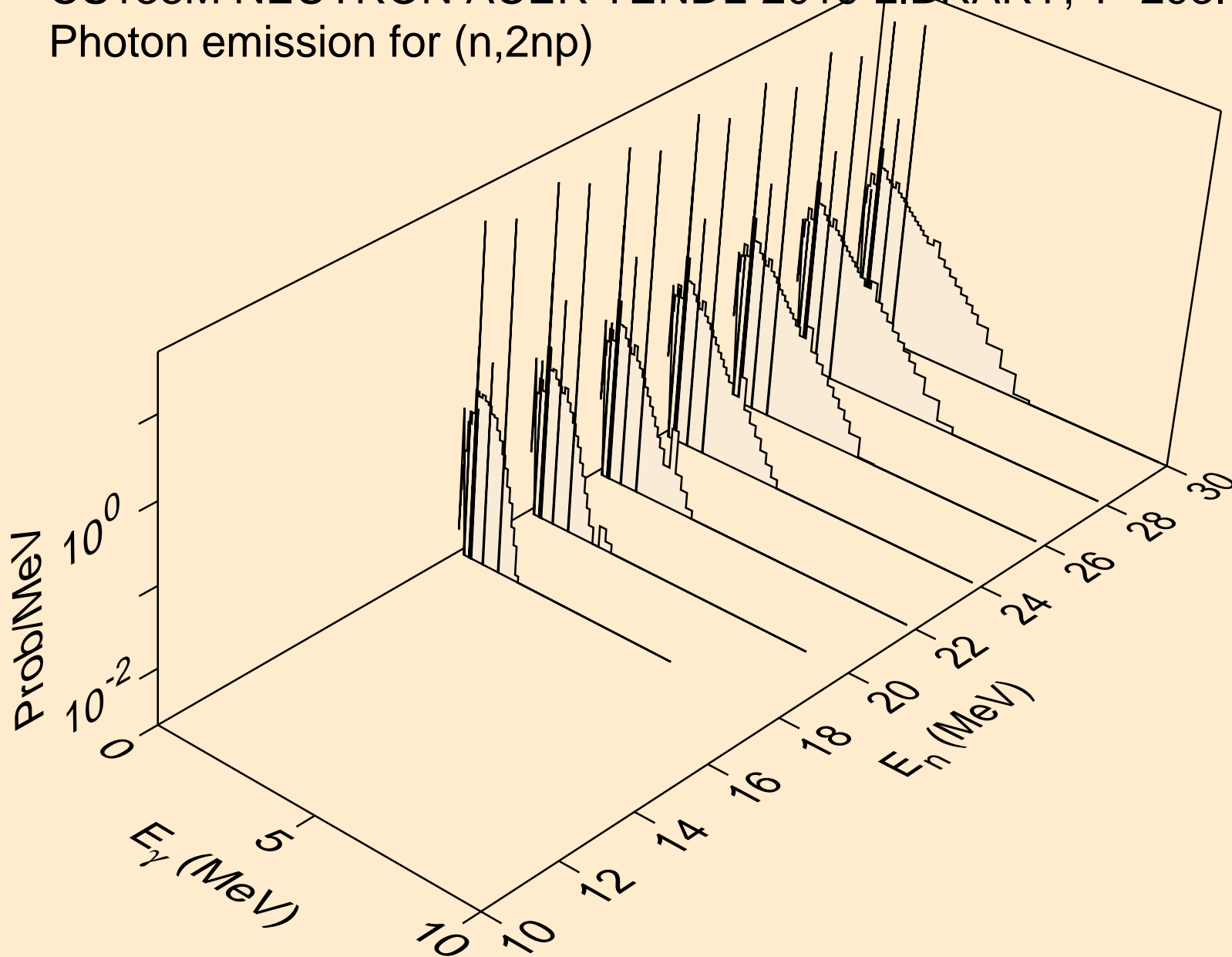
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Photon emission for (n,n\*)he3



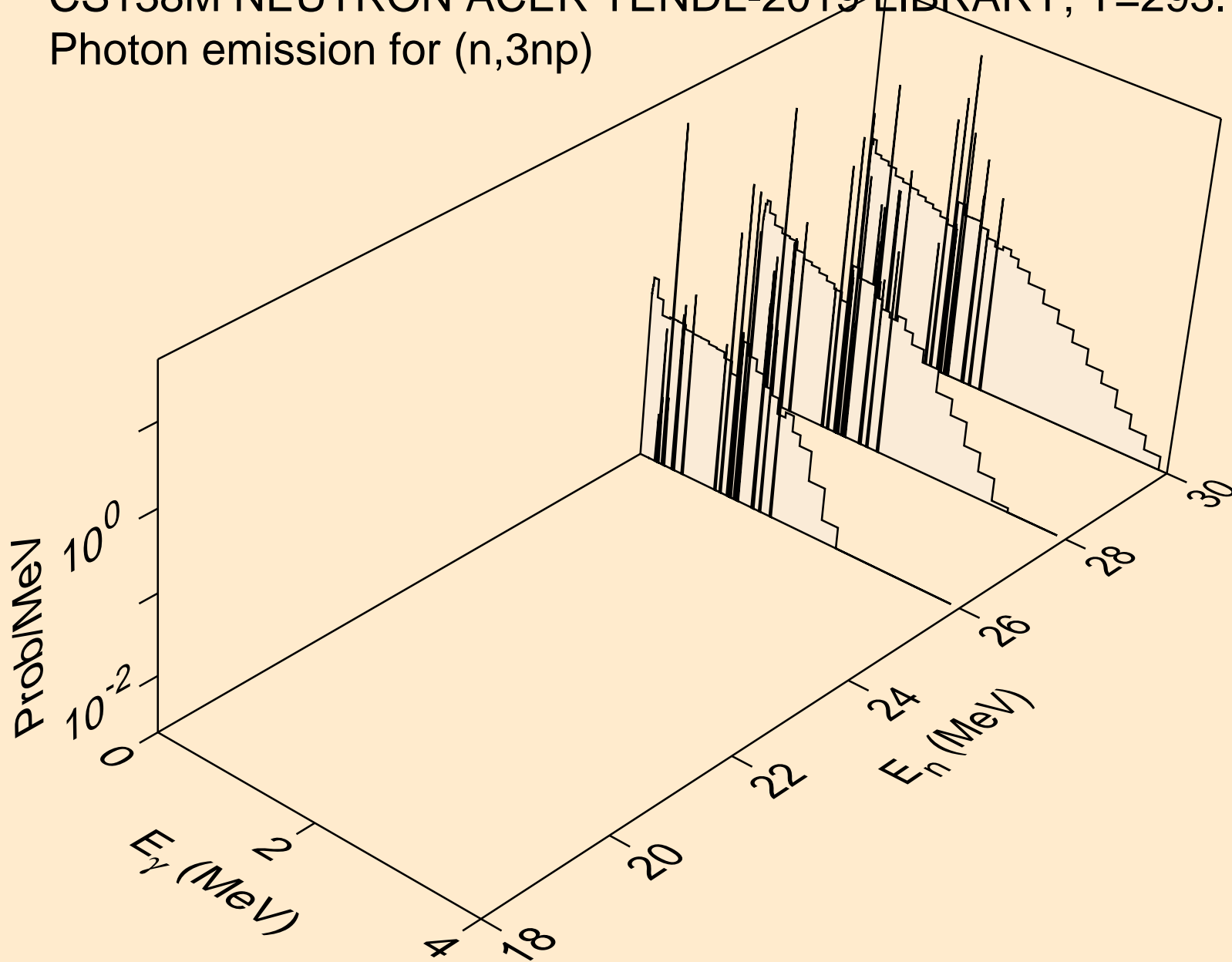
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Photon emission for (n,4n)



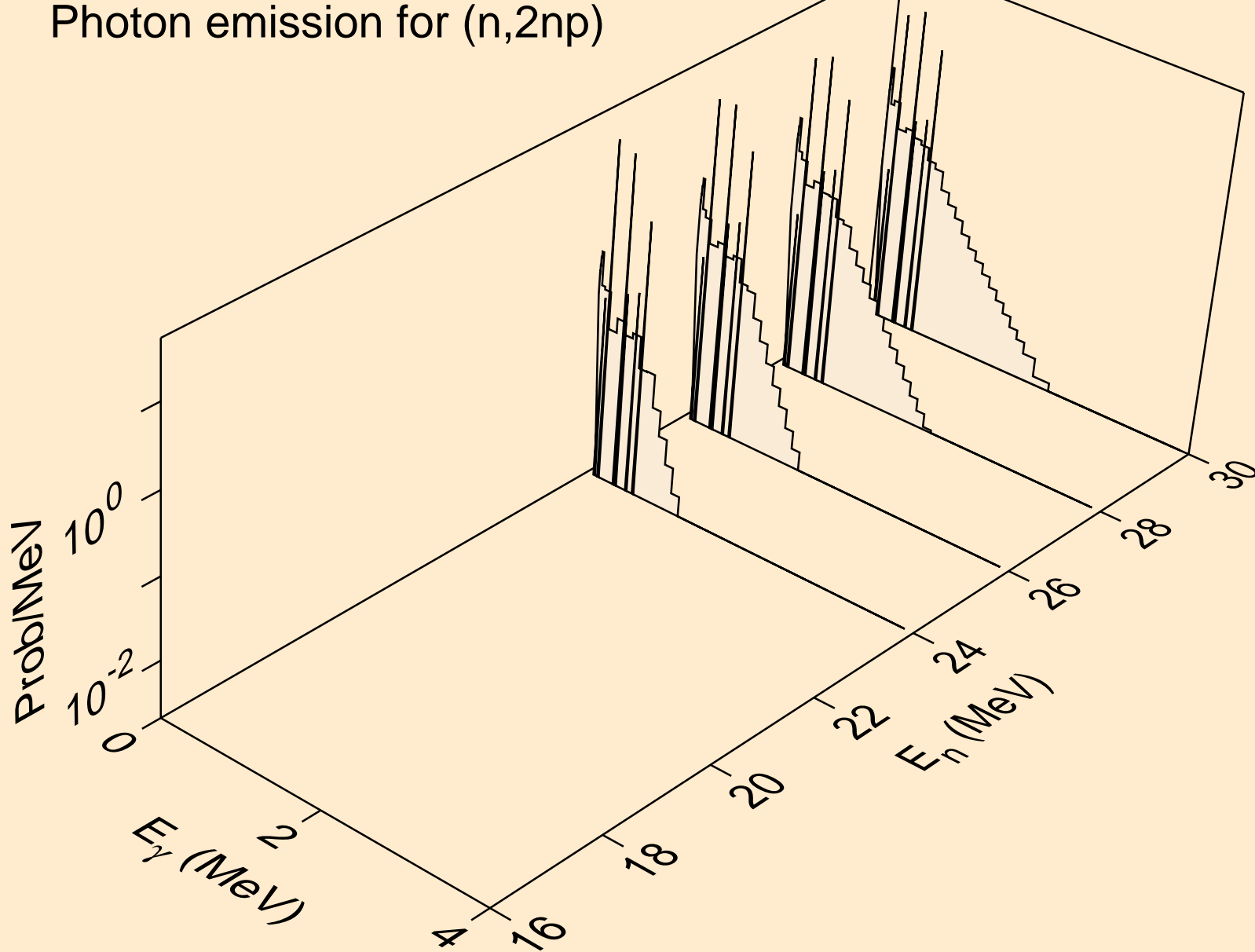
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Photon emission for (n,2np)



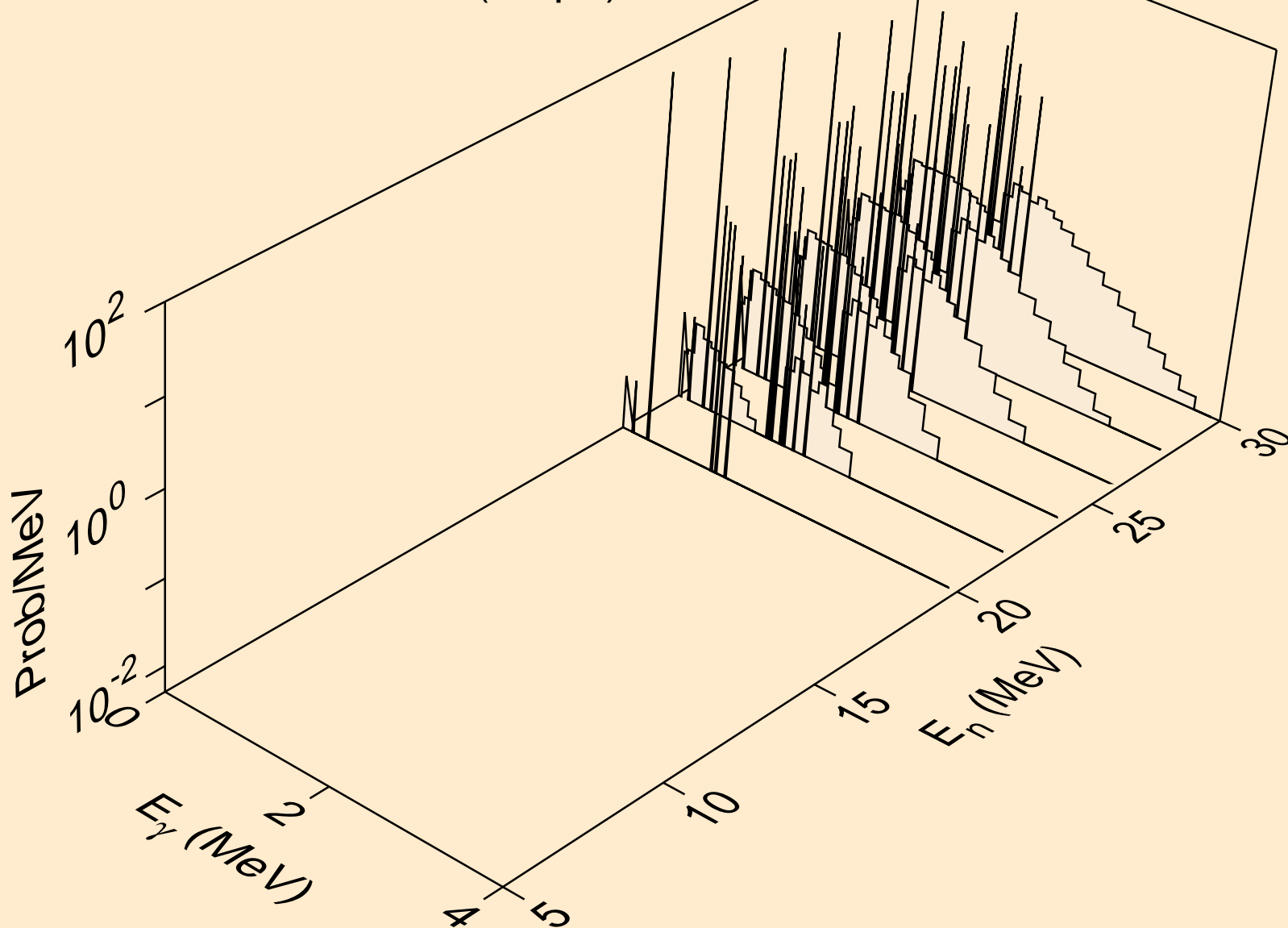
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Photon emission for (n,3np)



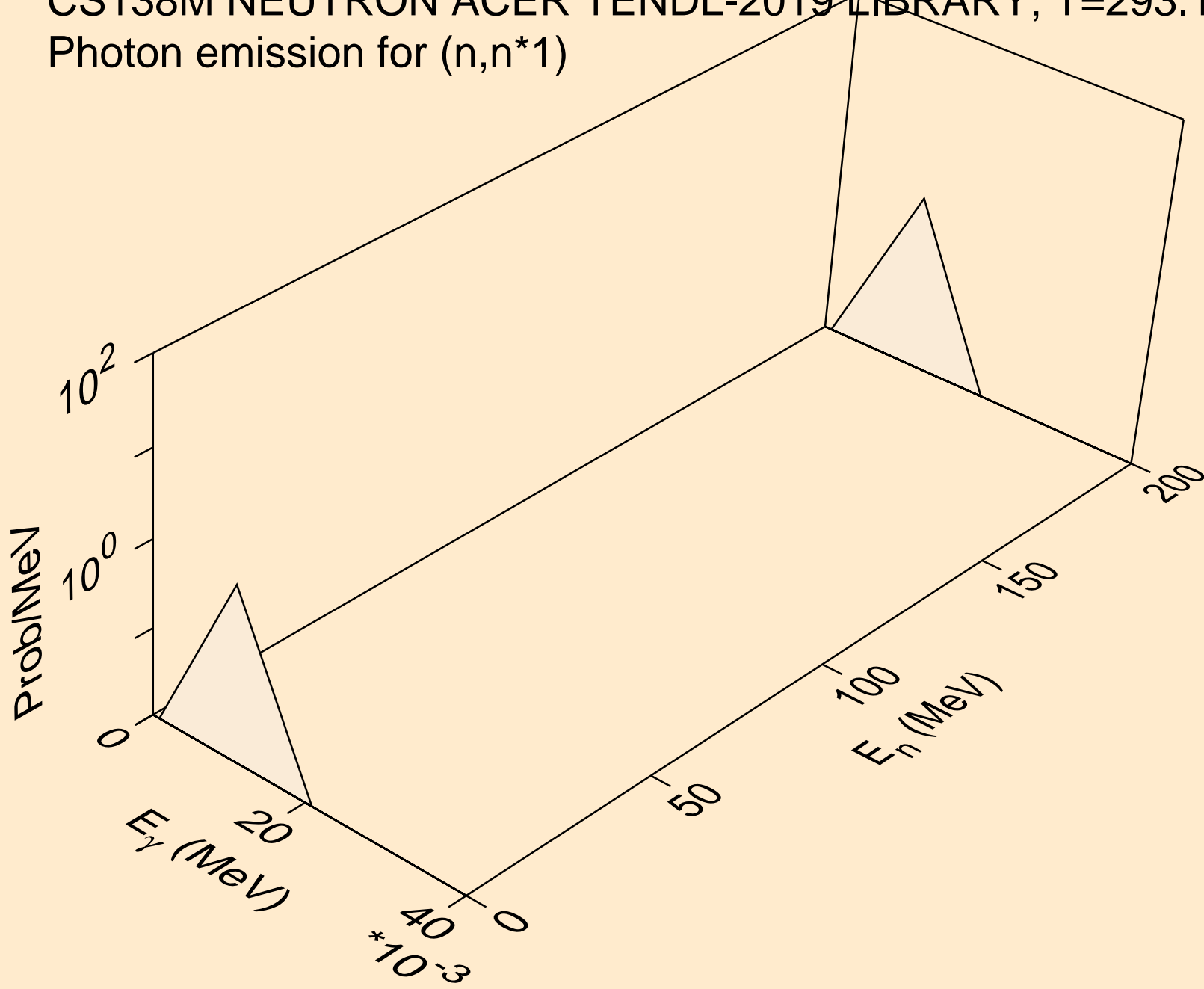
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Photon emission for (n,2np)



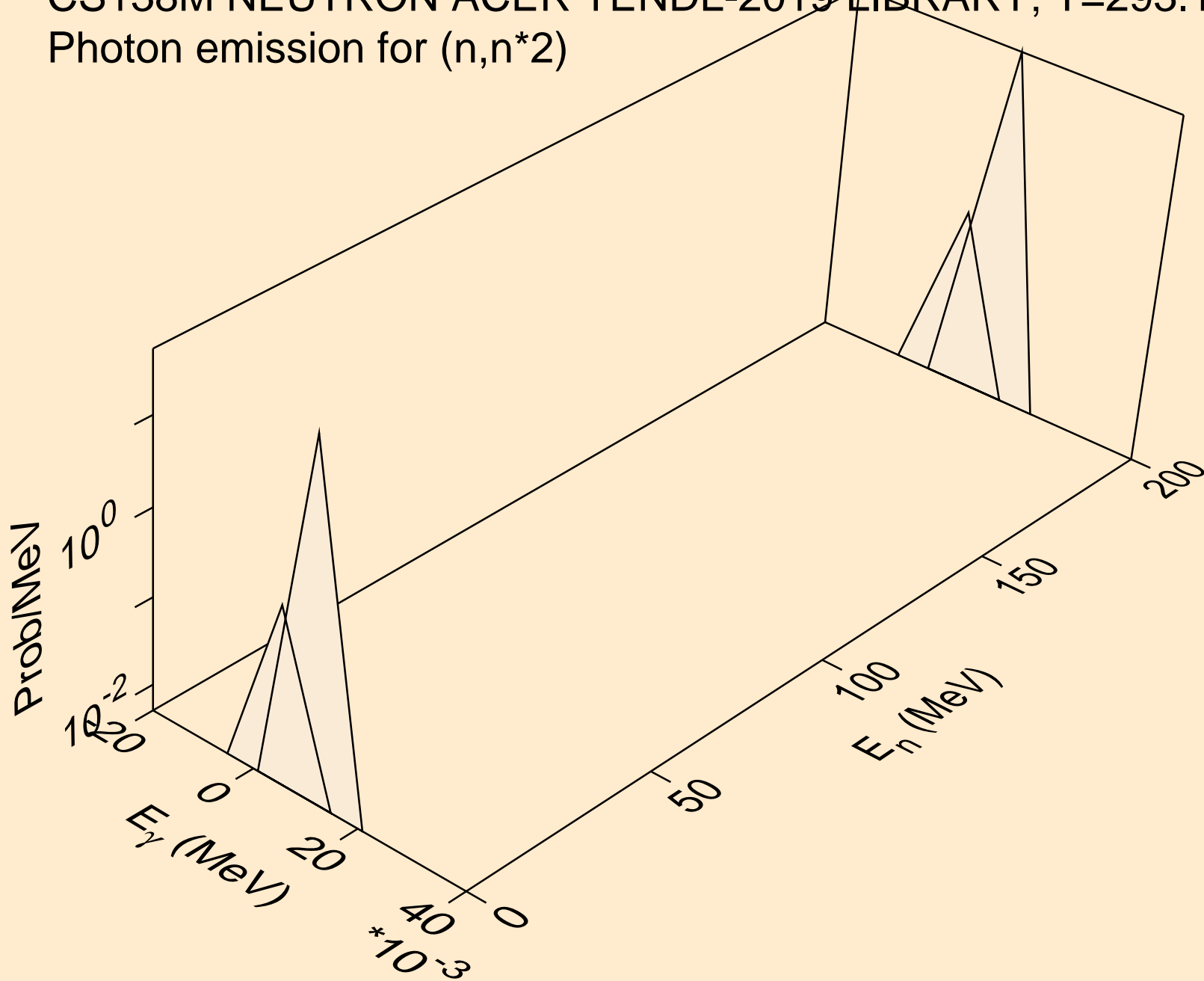
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*1)

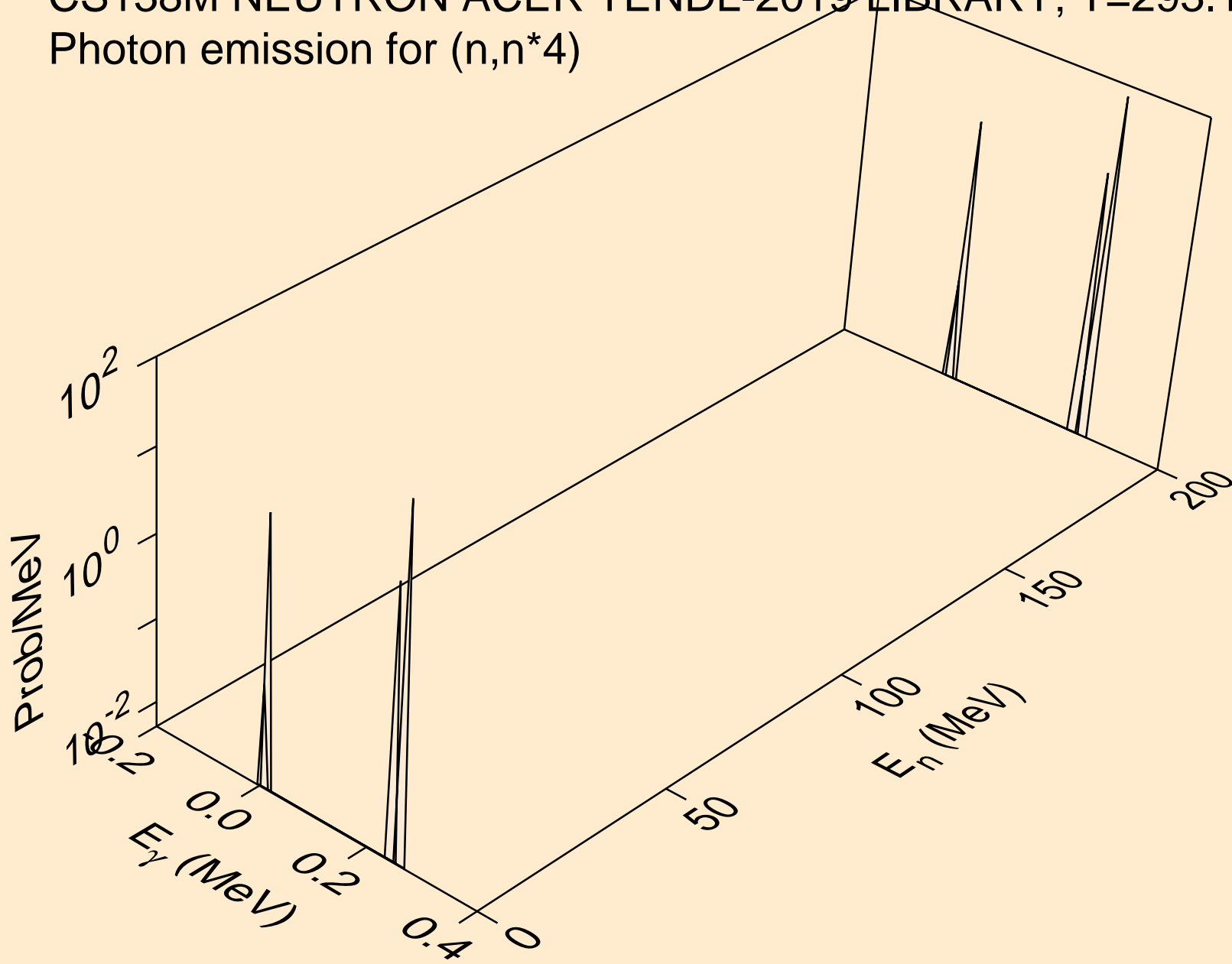


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Photon emission for (n,n\*2)

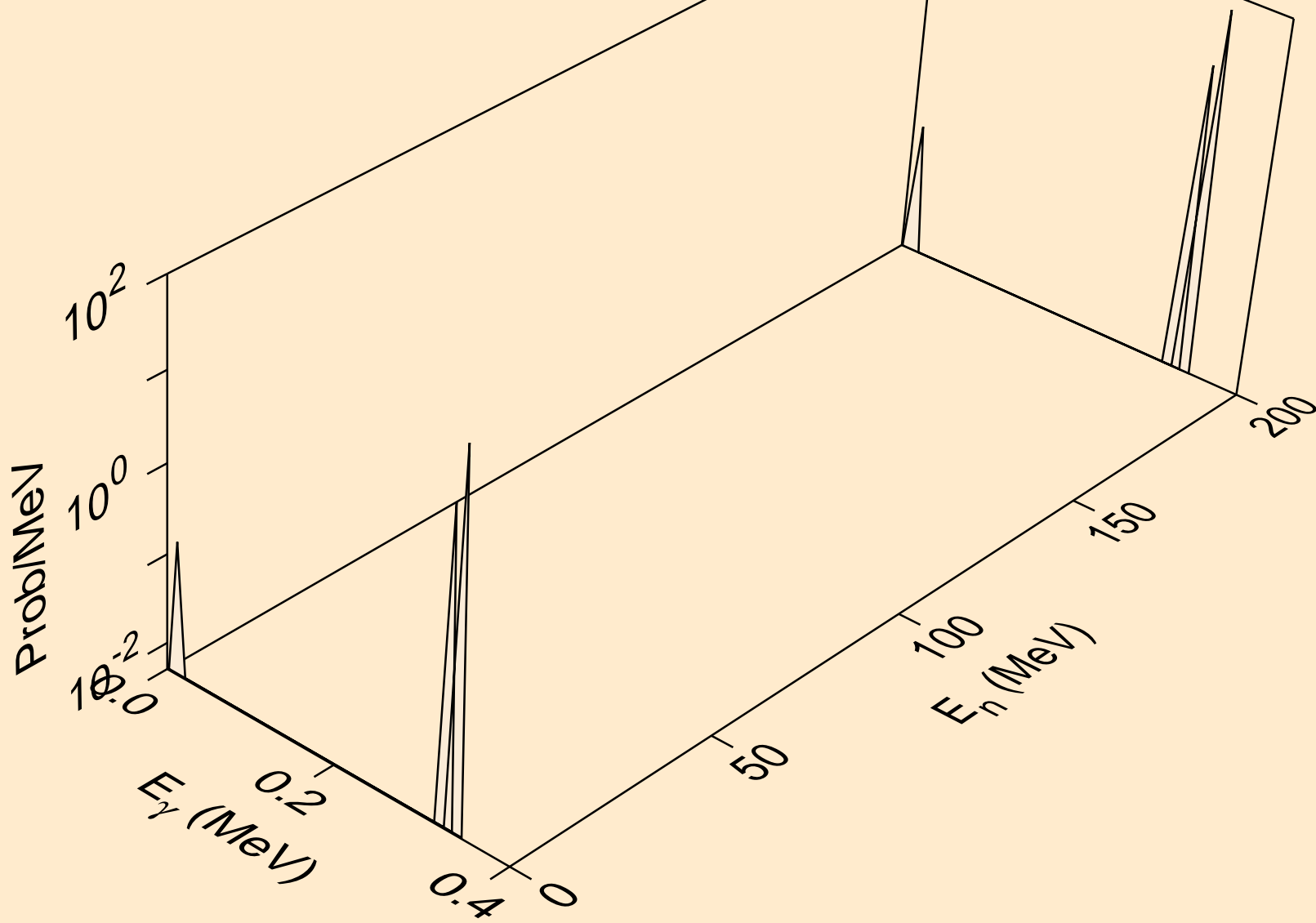




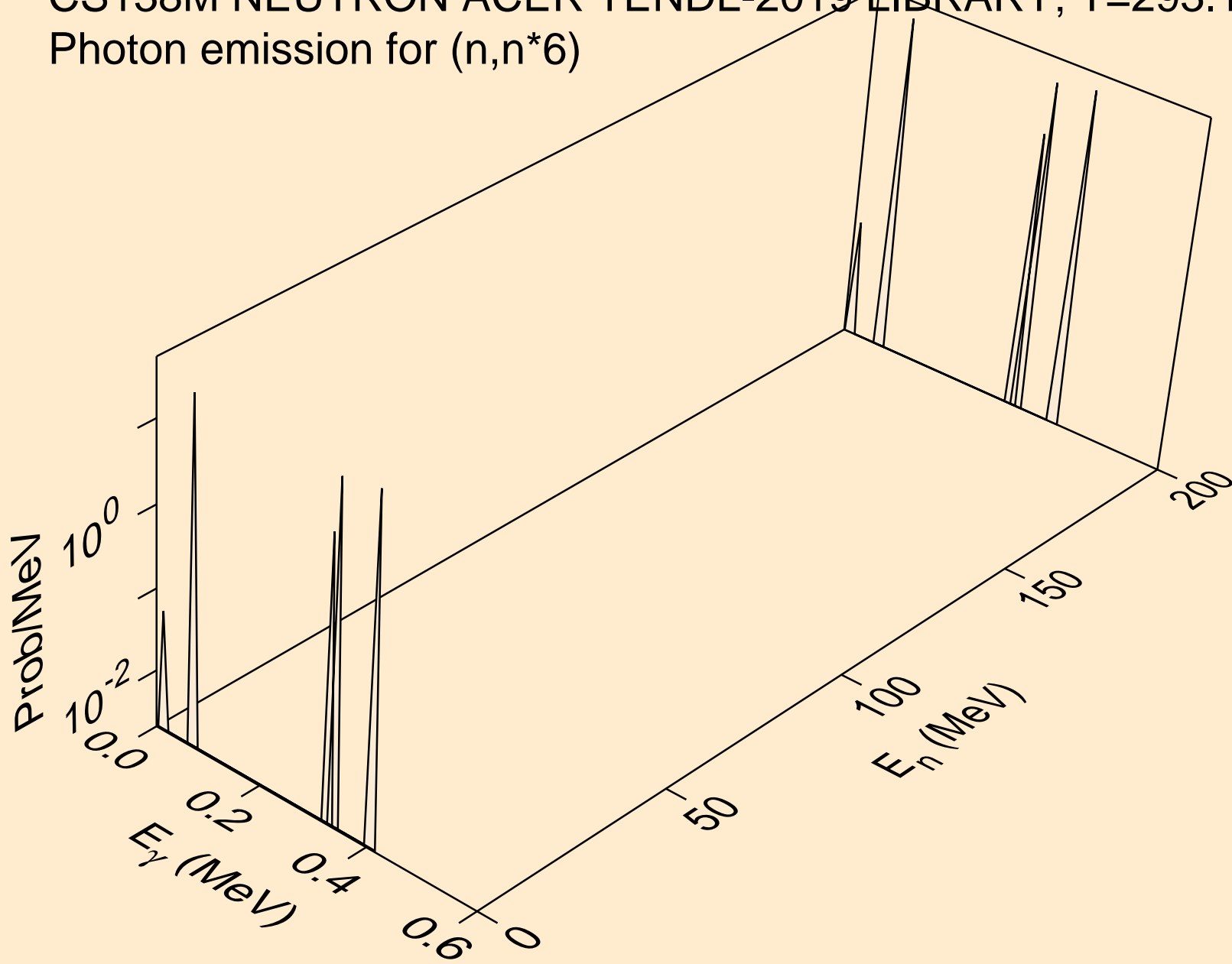
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Photon emission for (n,n\*4)



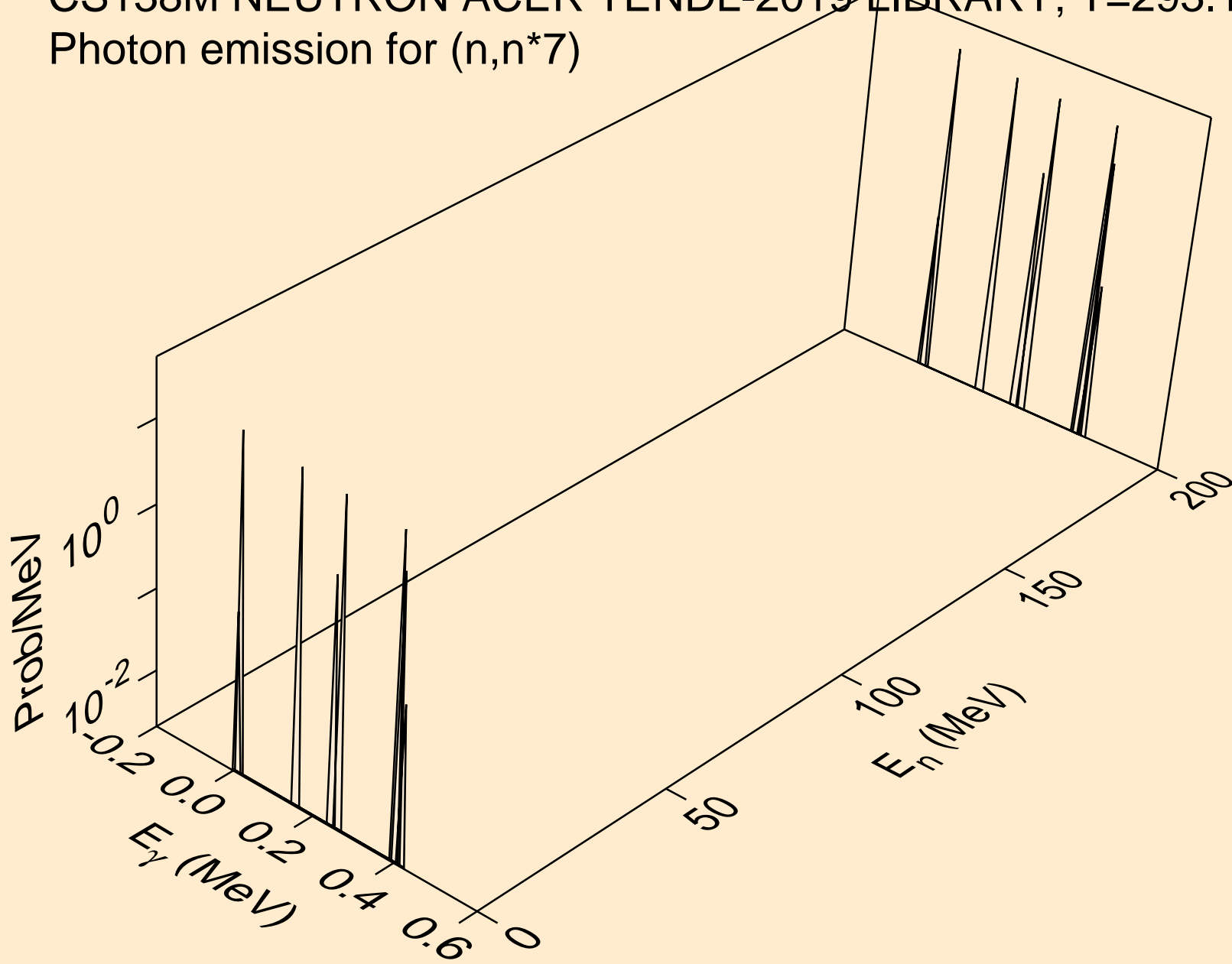
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Photon emission for (n,n\*5)



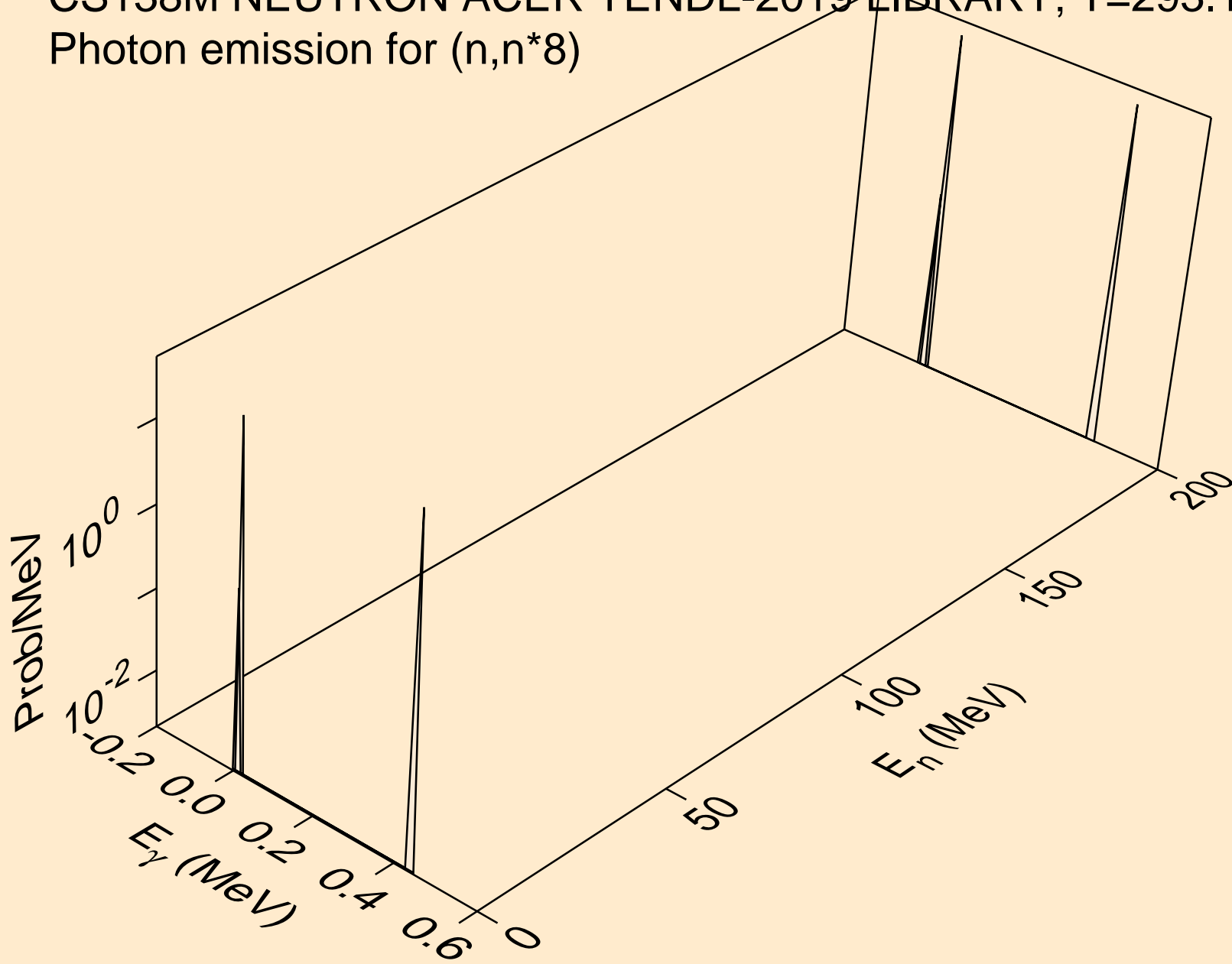
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Photon emission for (n,n\*6)



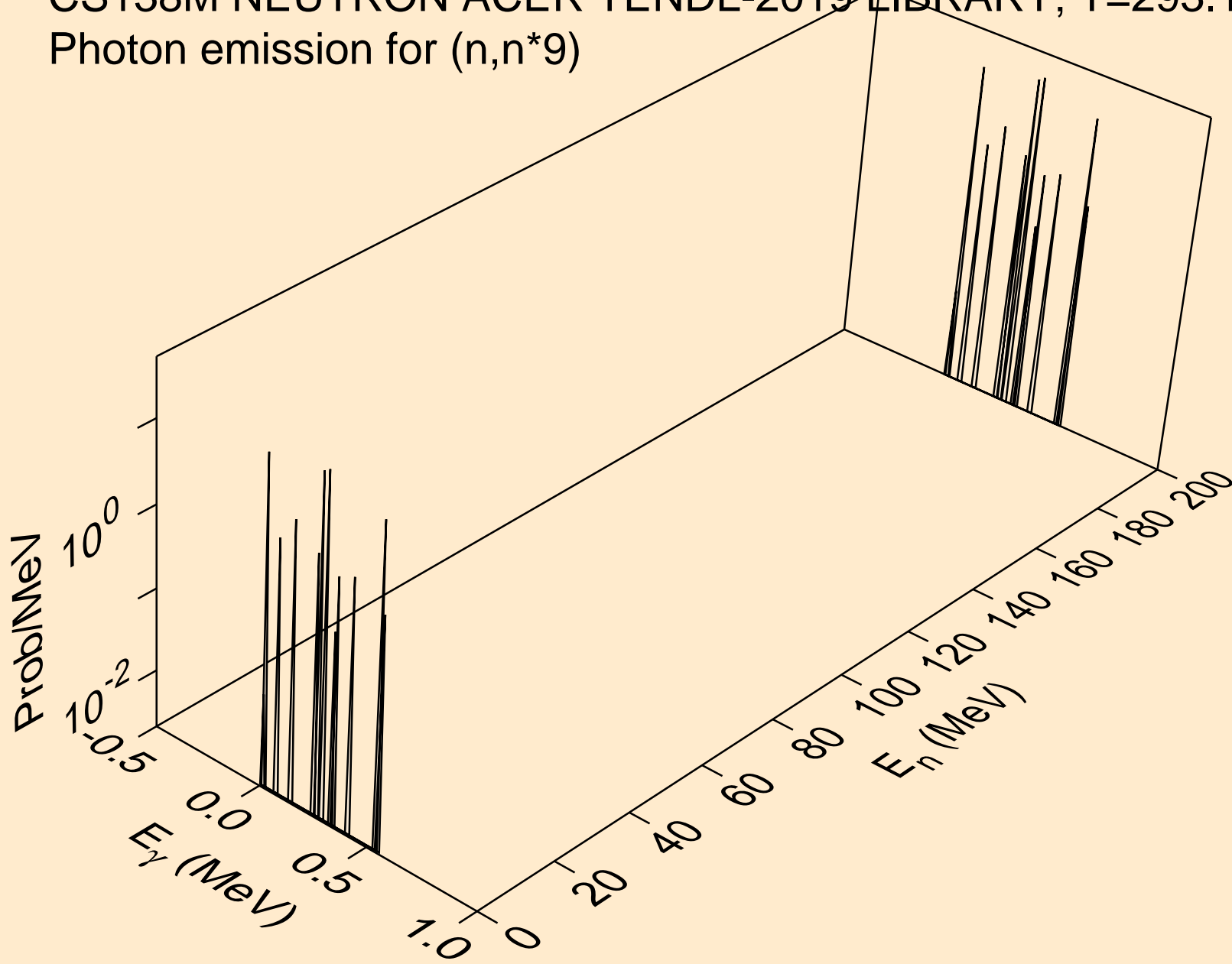
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Photon emission for (n,n\*7)



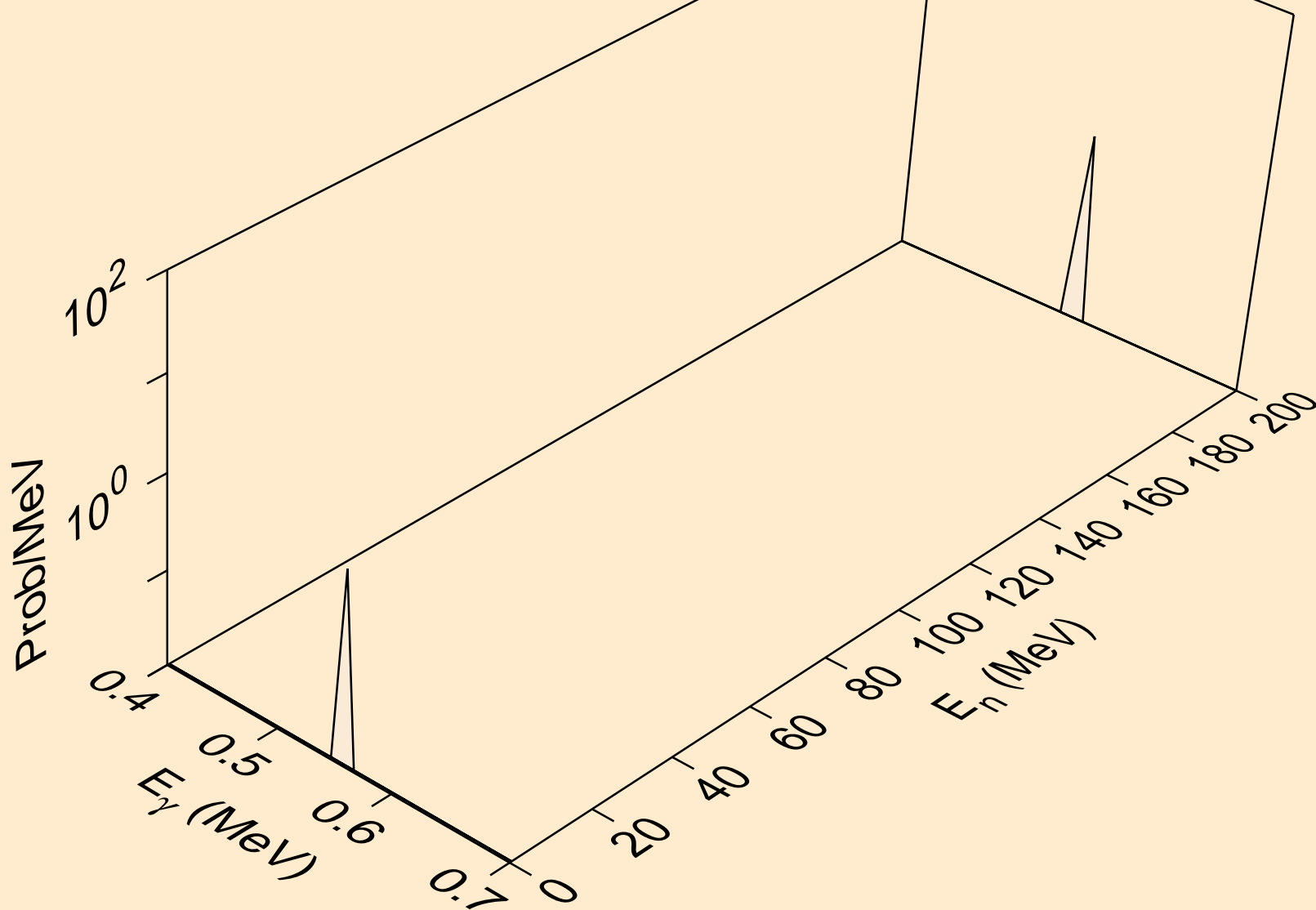
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Photon emission for (n,n\*8)



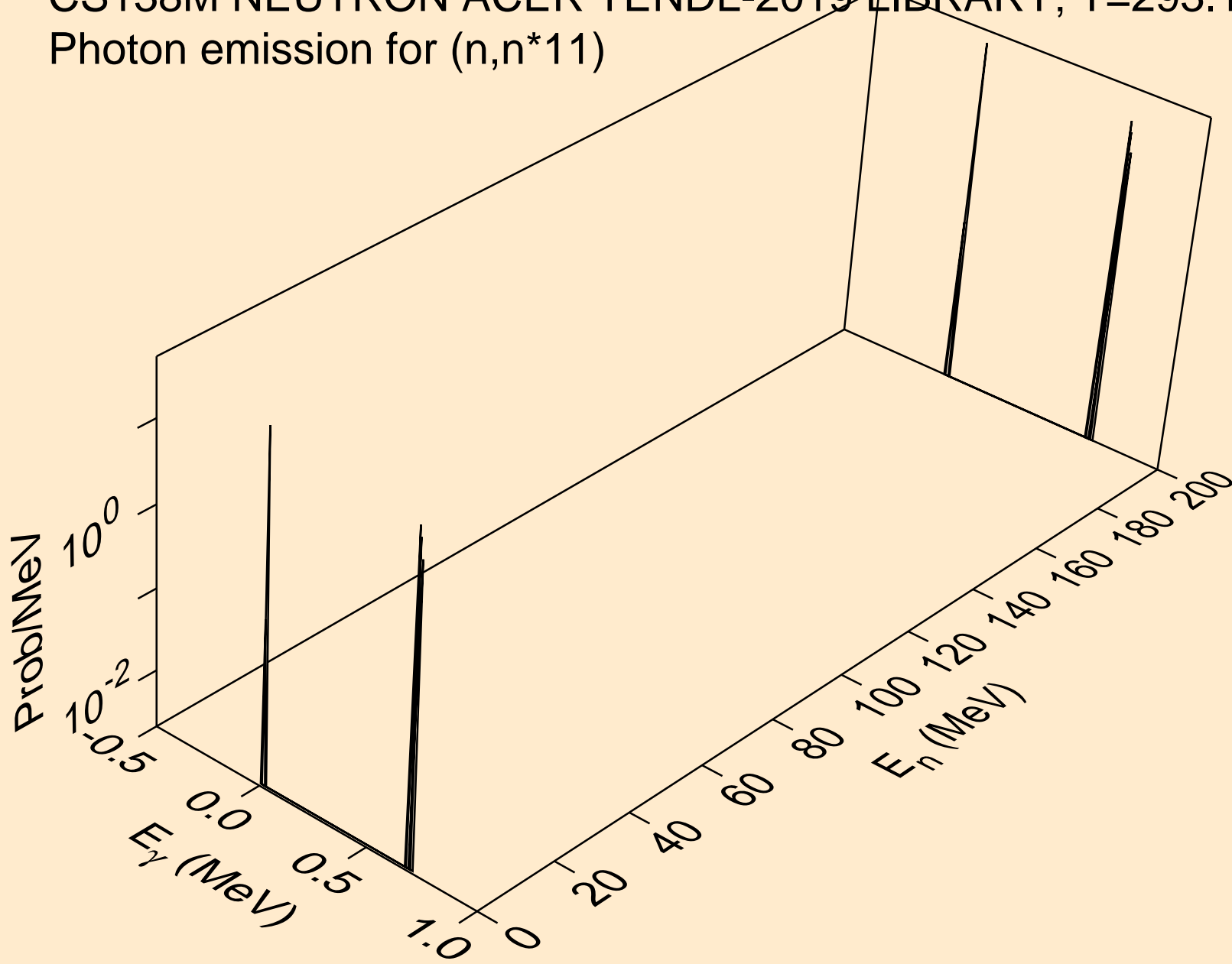
CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*9)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*10)

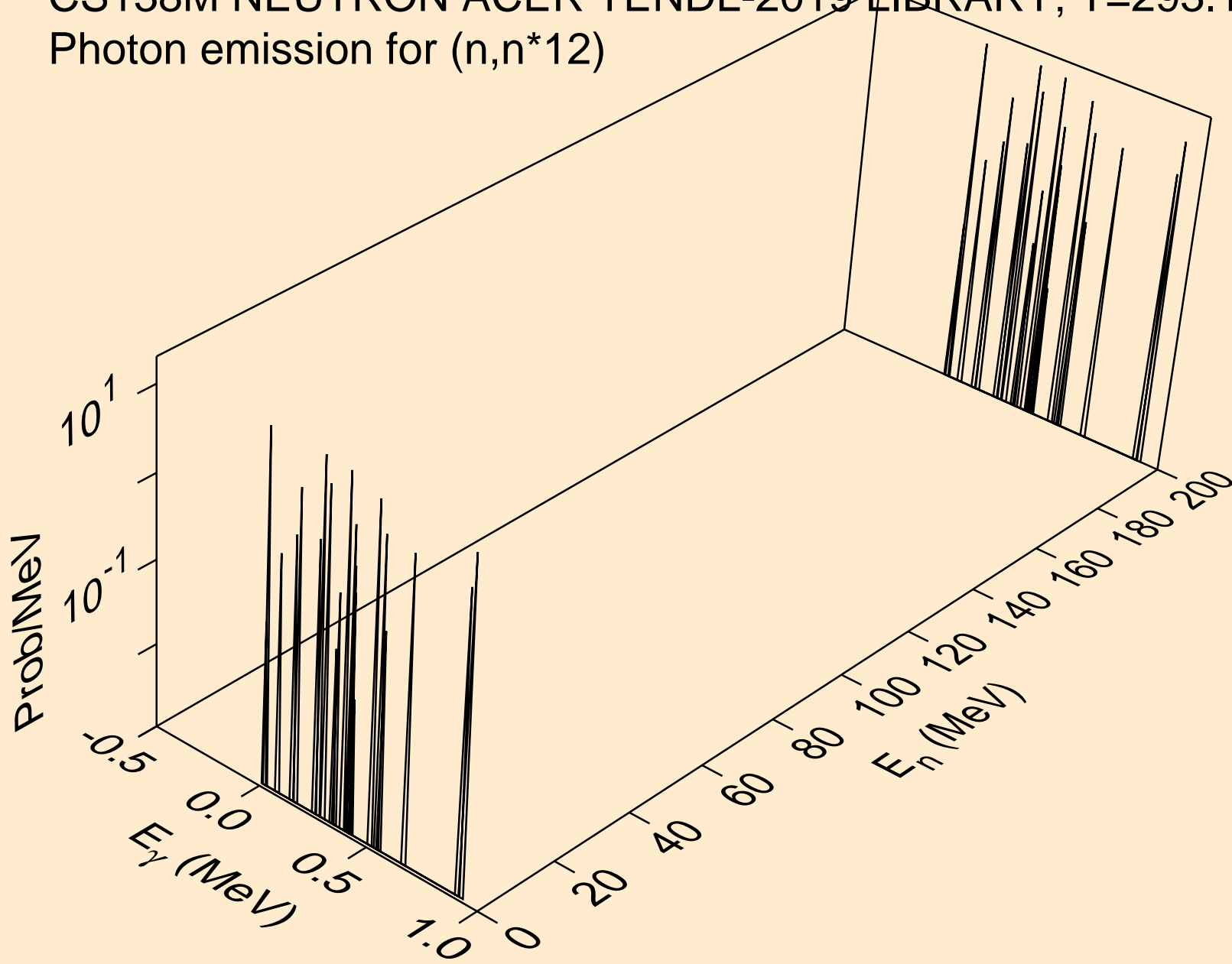


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Photon emission for (n,n\*11)

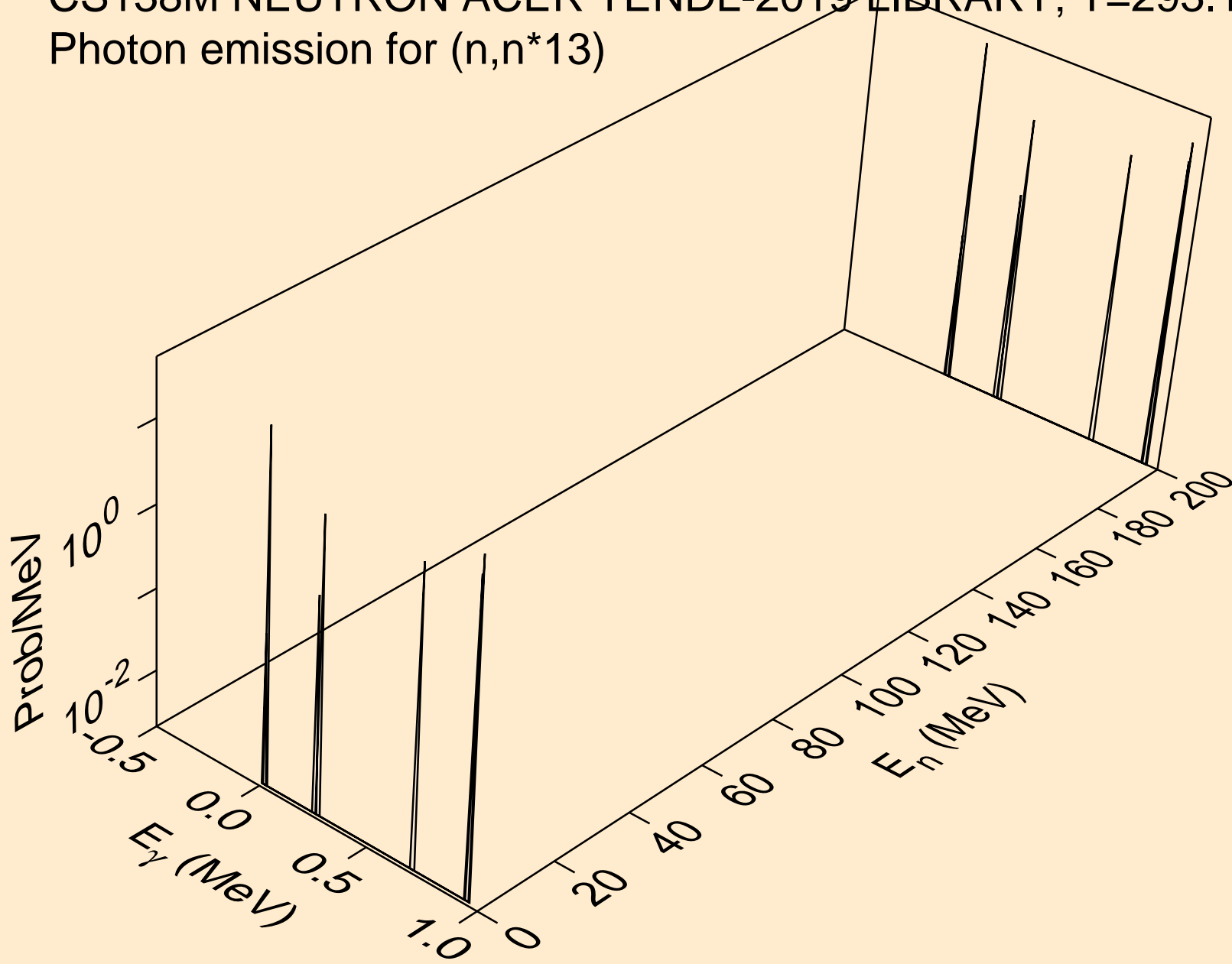




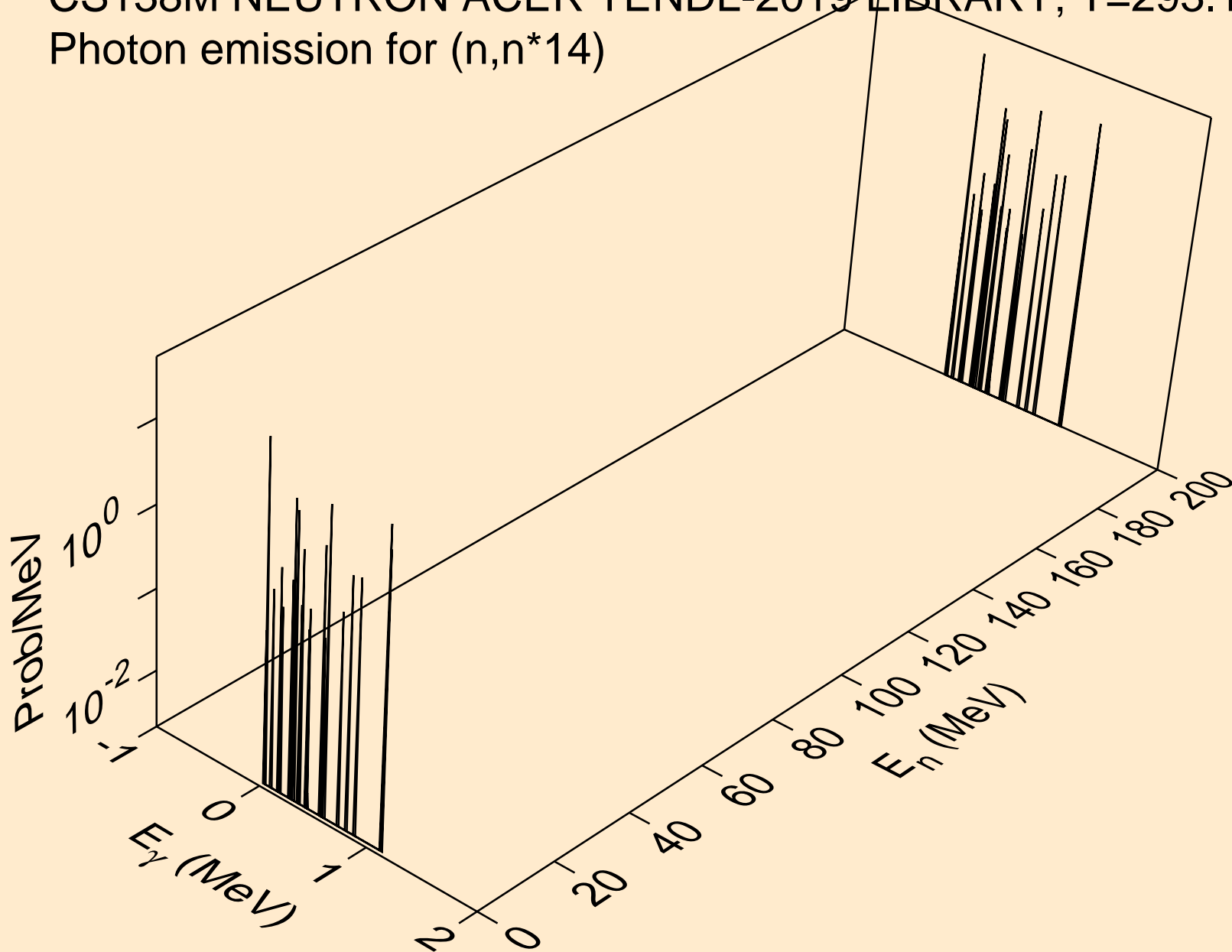
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Photon emission for (n,n\*12)



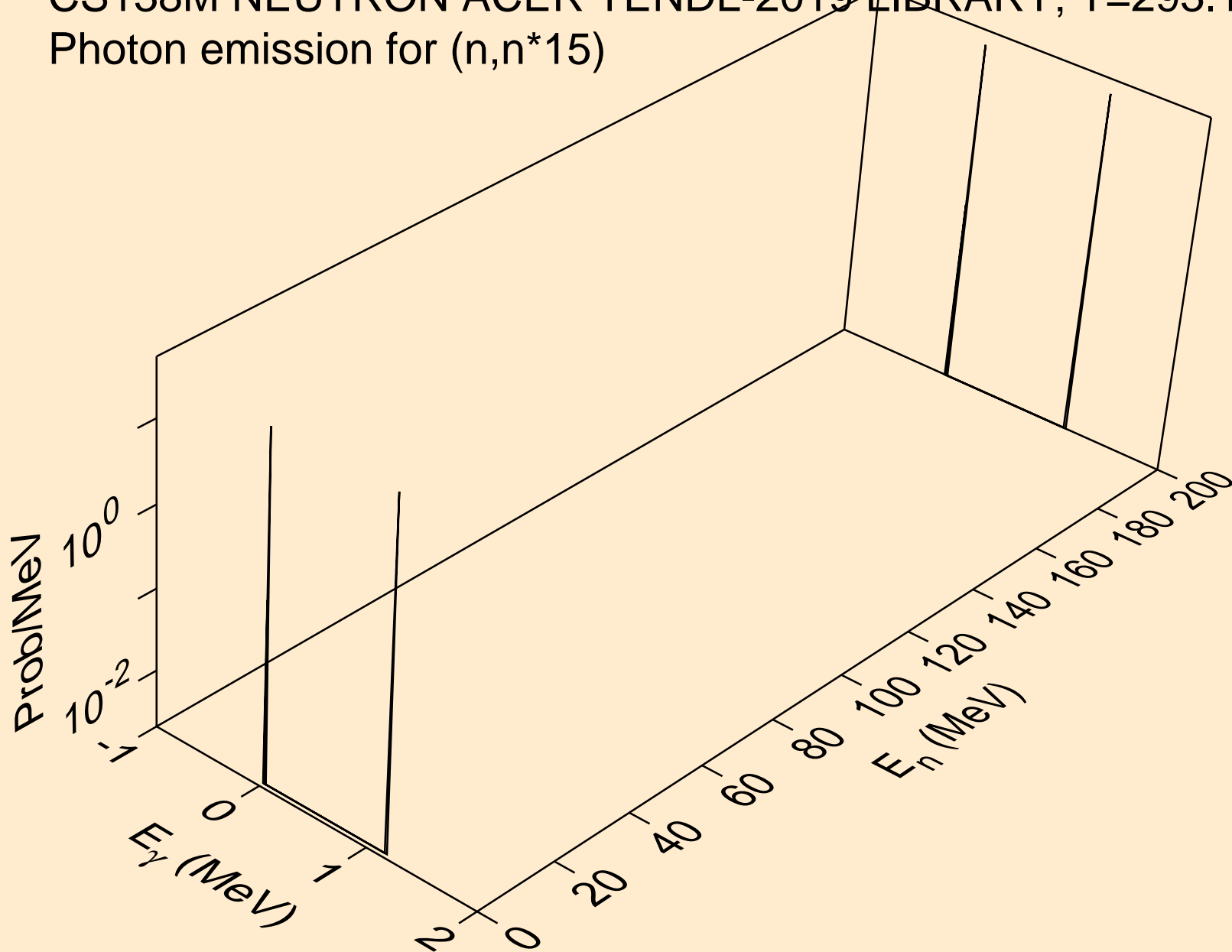
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Photon emission for (n,n\*13)



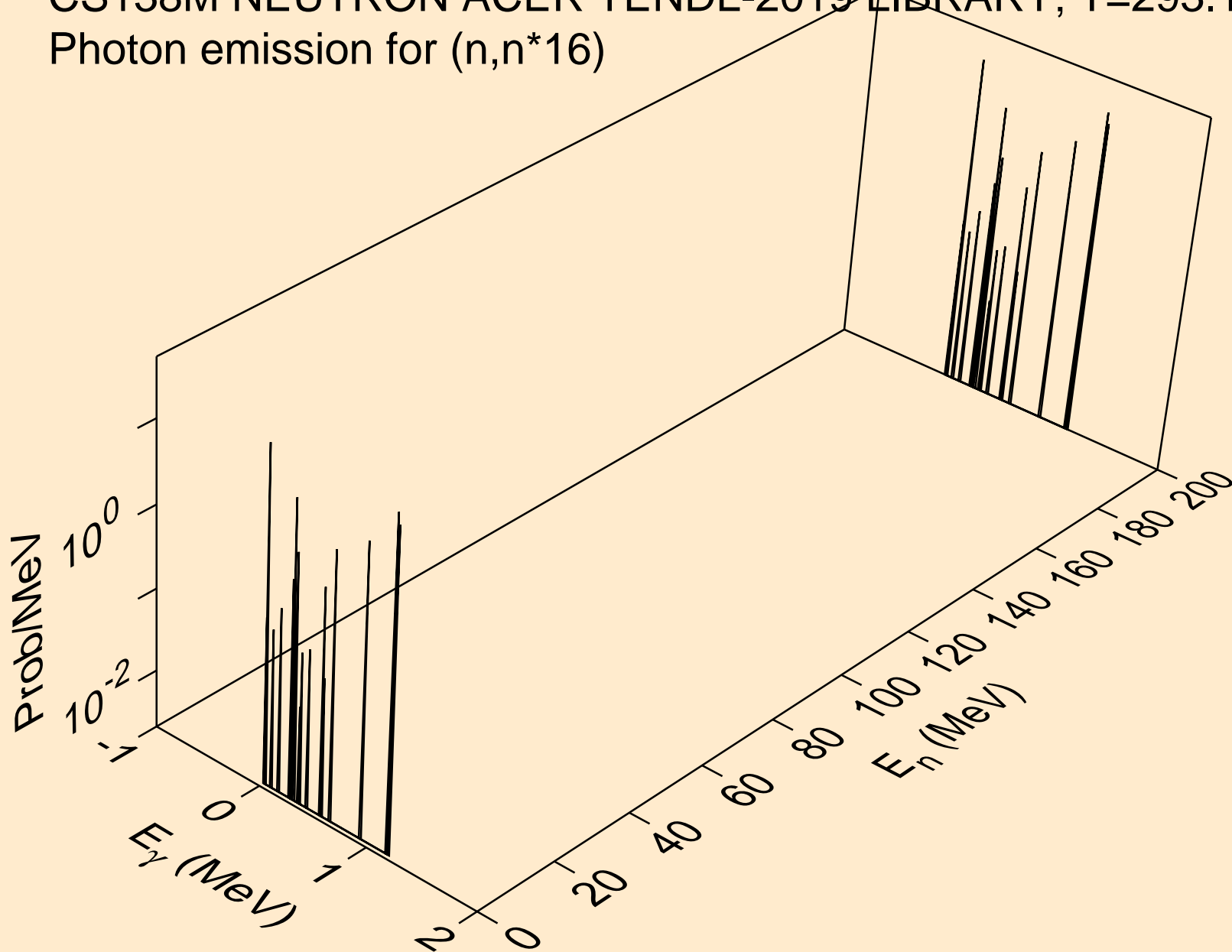
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Photon emission for (n,n\*14)



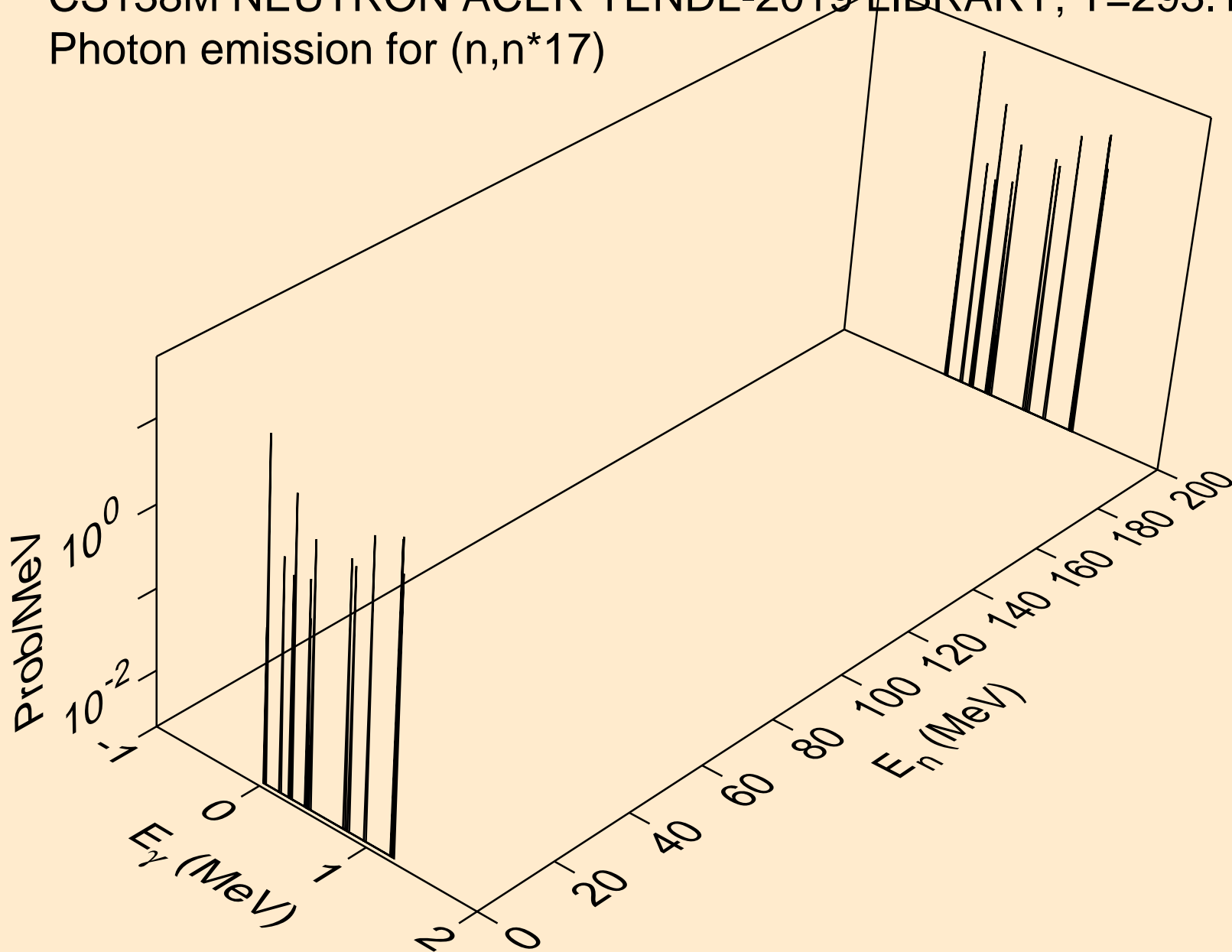
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Photon emission for (n,n\*15)



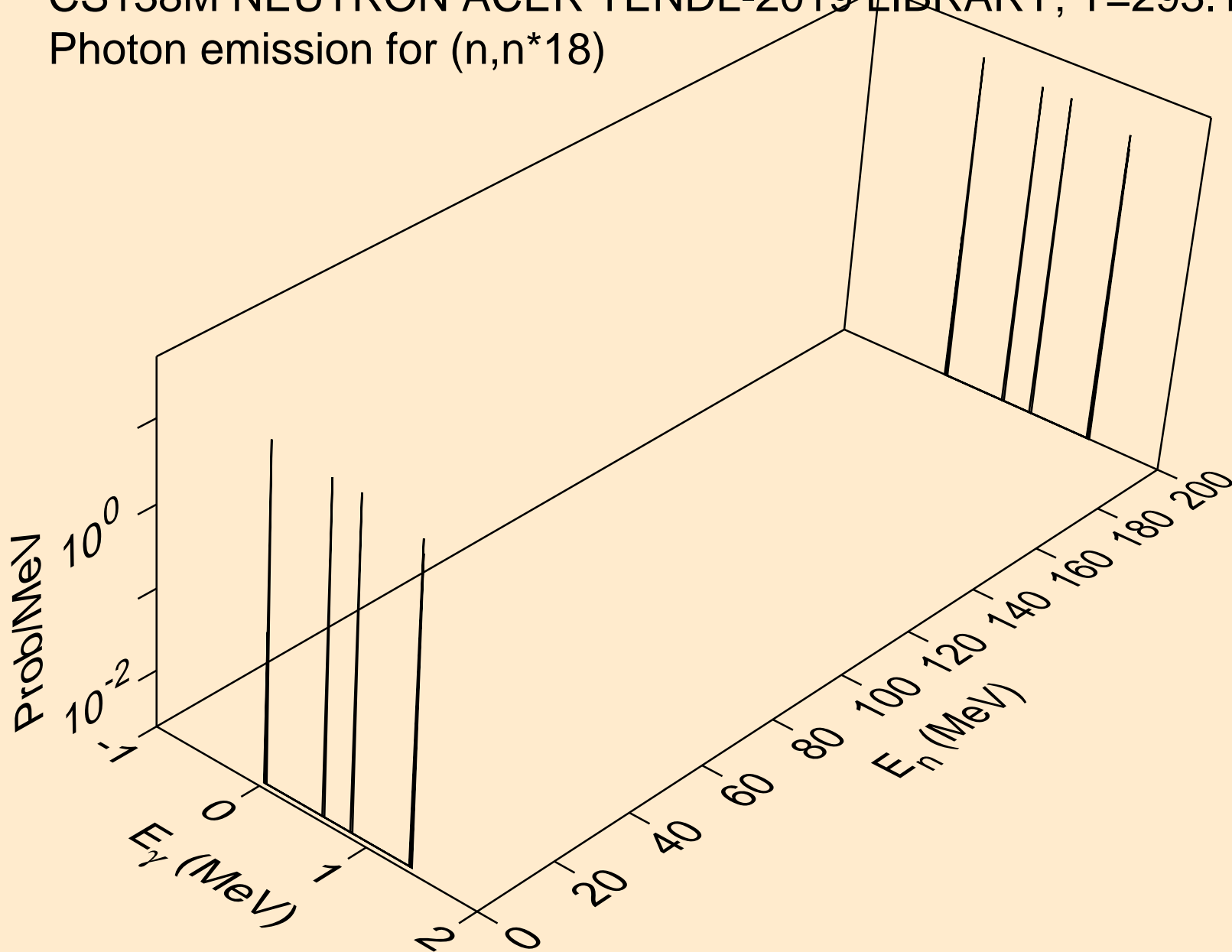
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Photon emission for (n,n\*16)



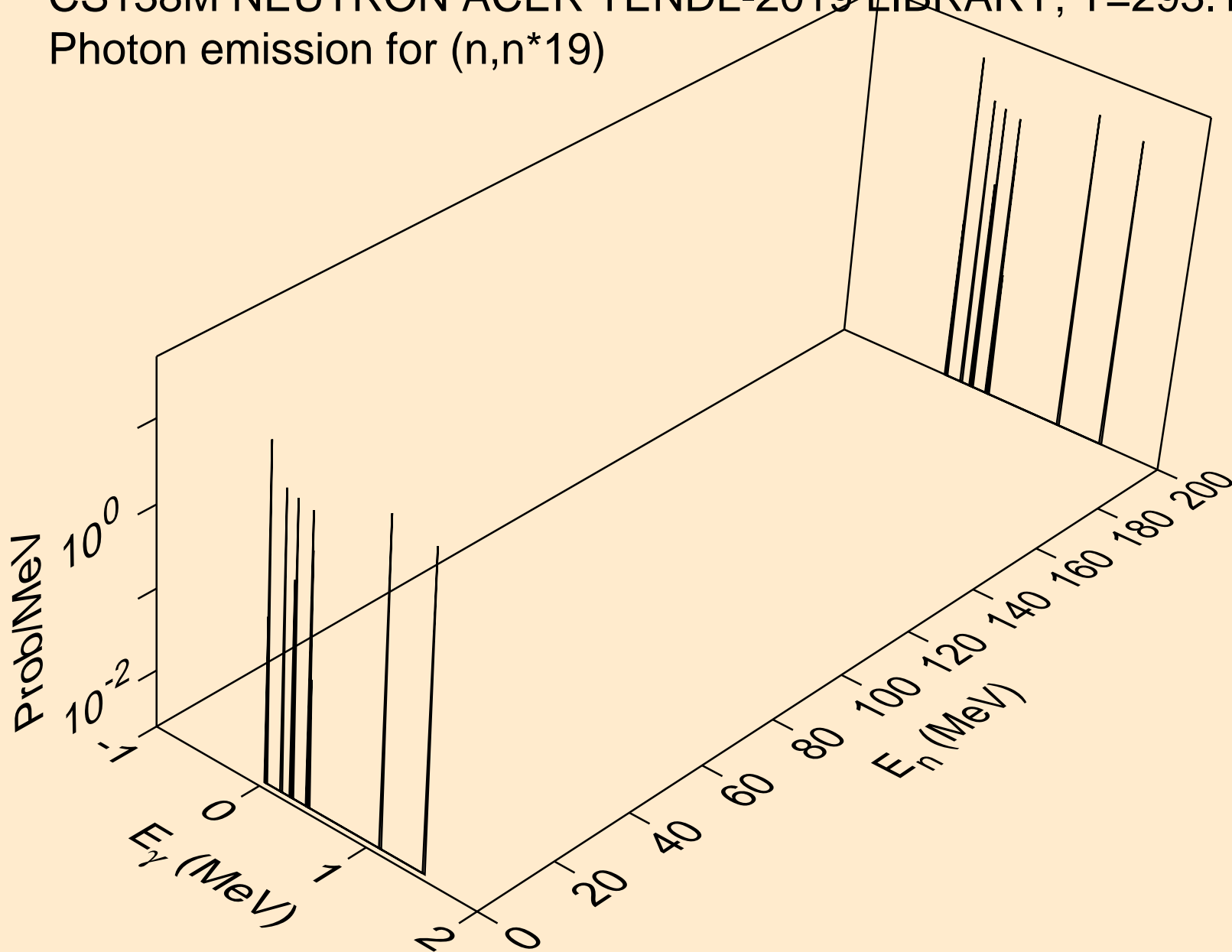
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Photon emission for (n,n\*17)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*18)

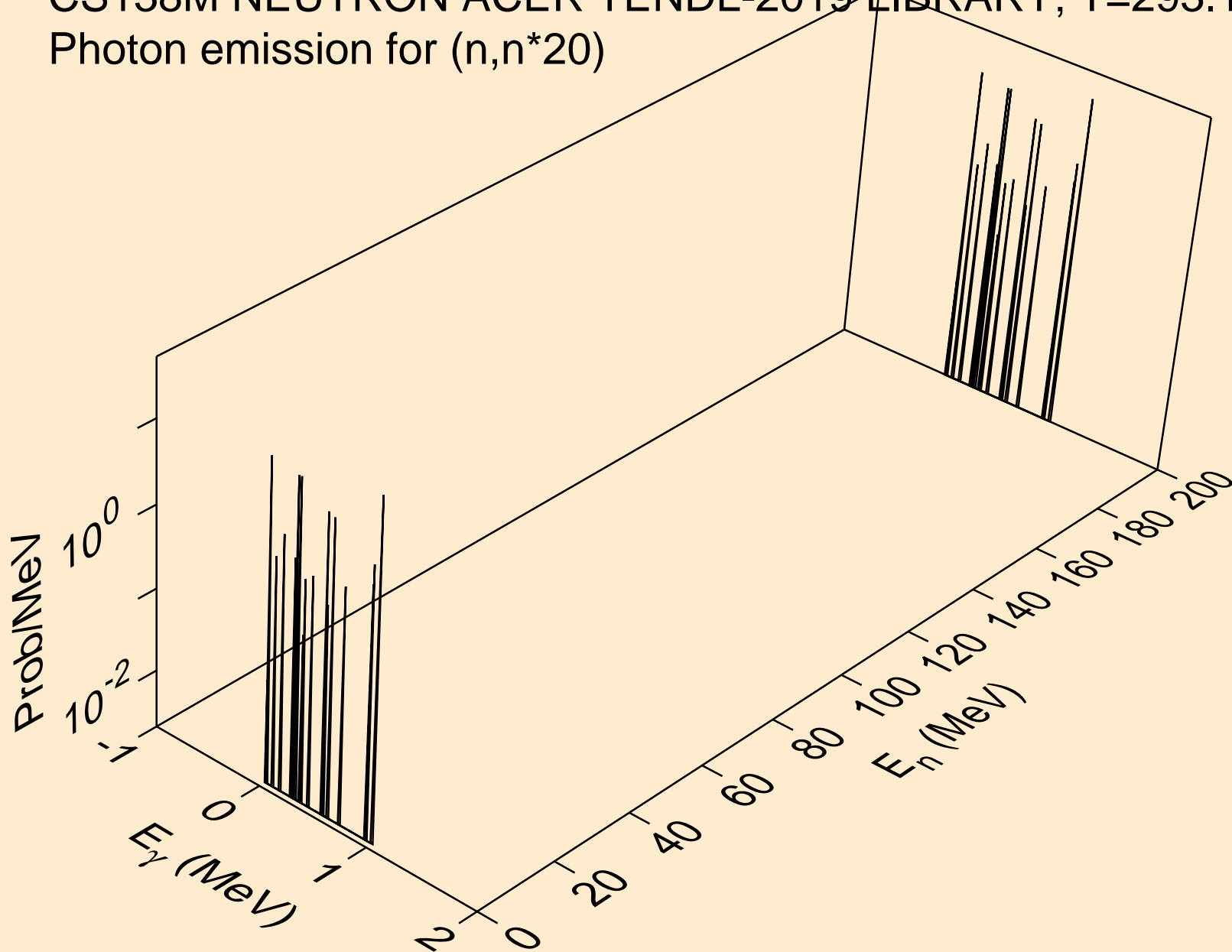


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Photon emission for (n,n\*19)

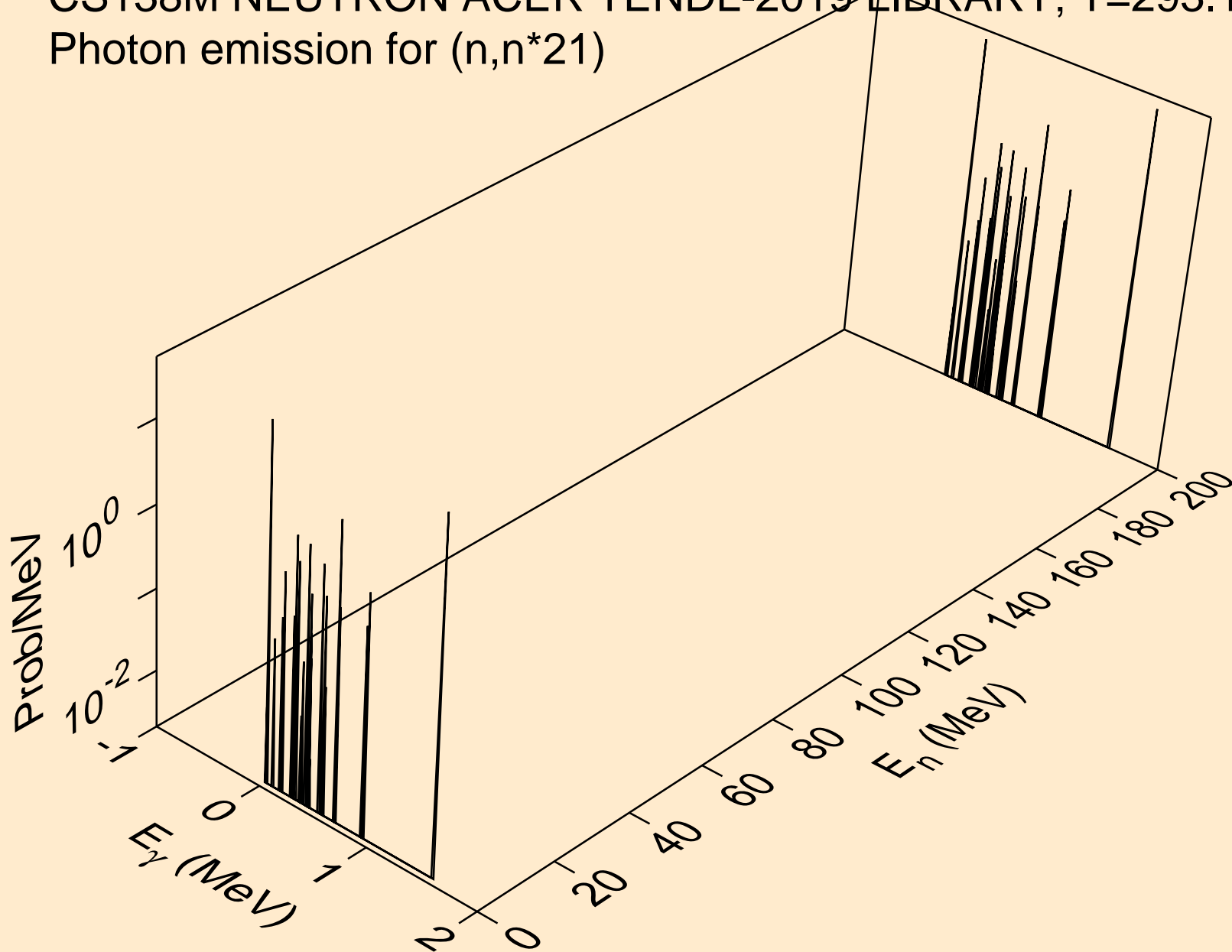




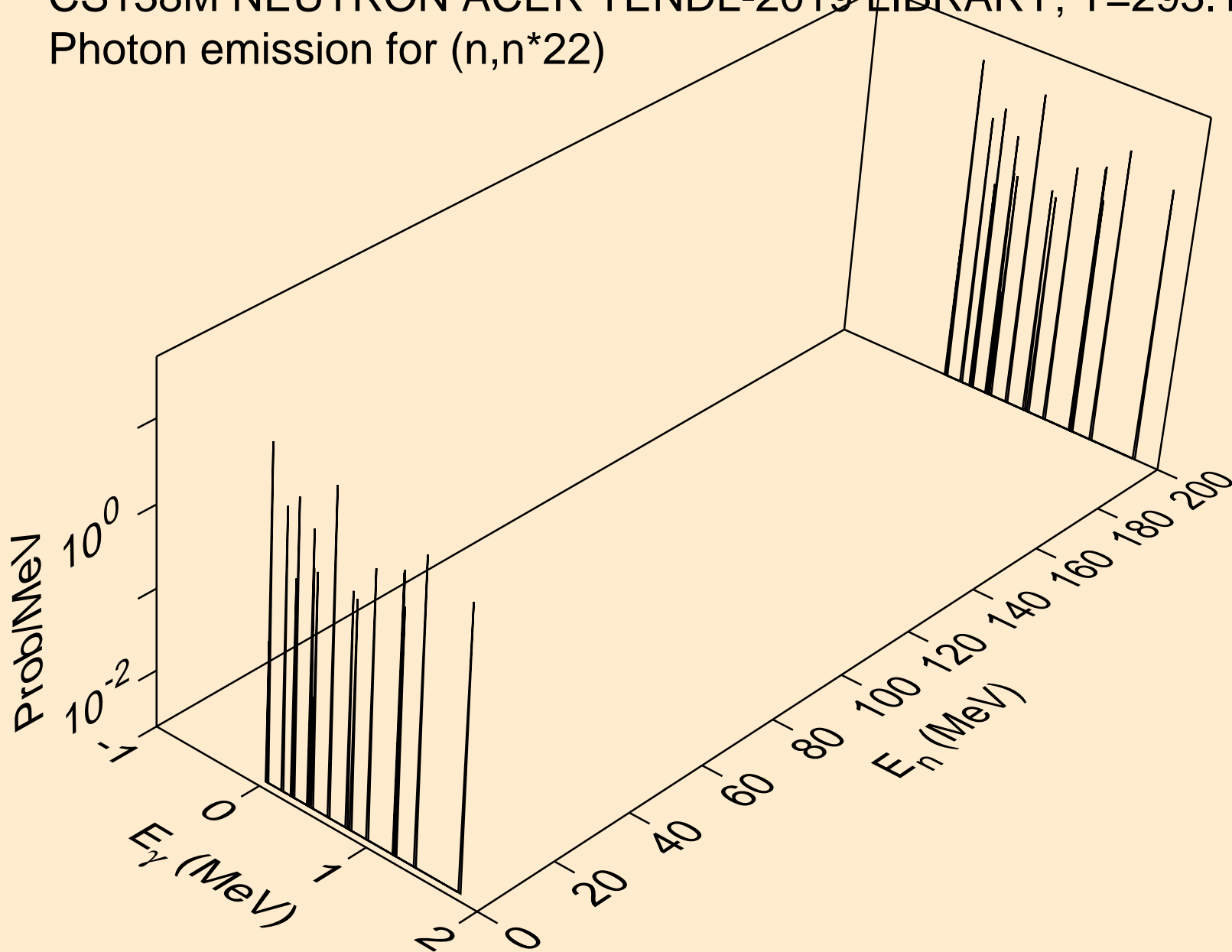
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Photon emission for (n,n\*20)



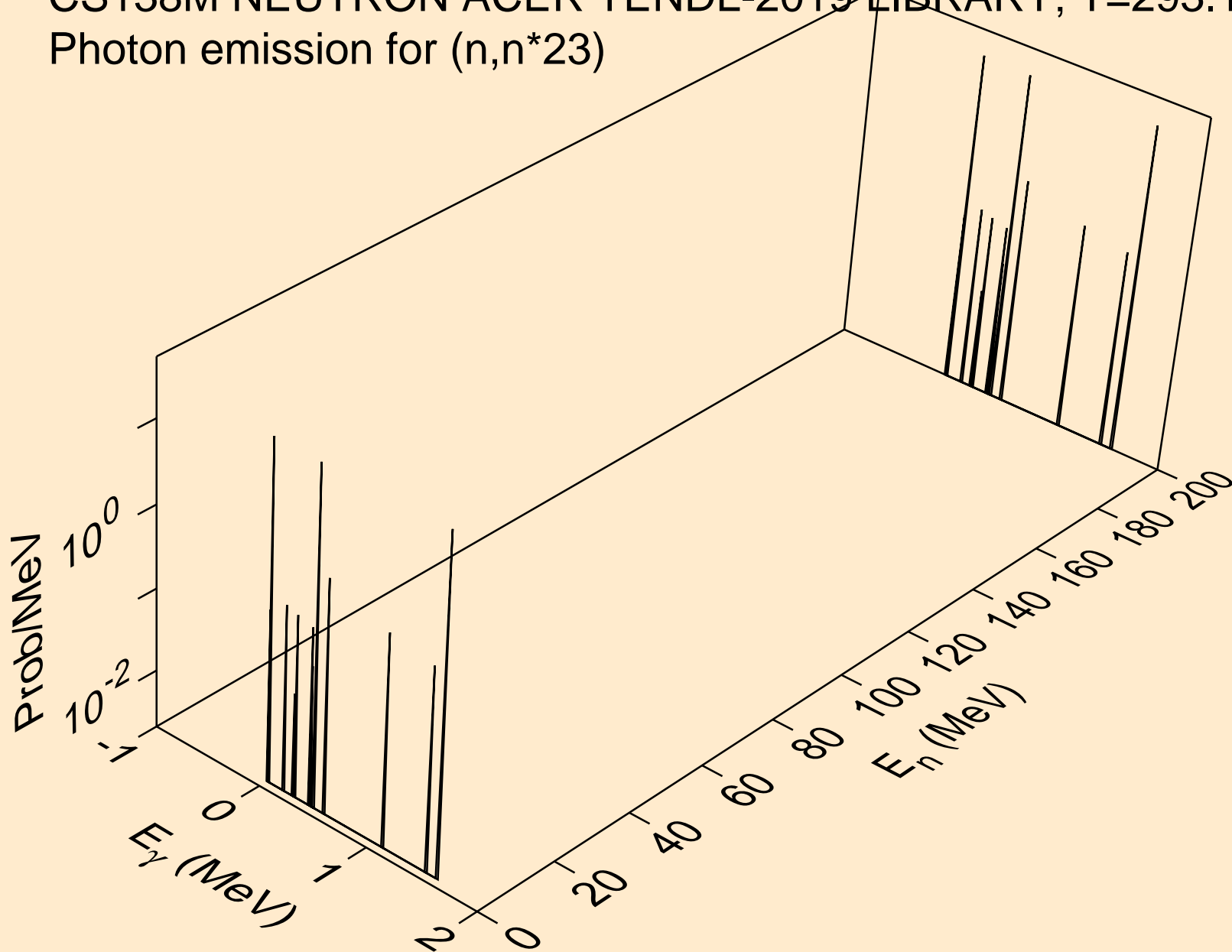
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Photon emission for (n,n\*21)



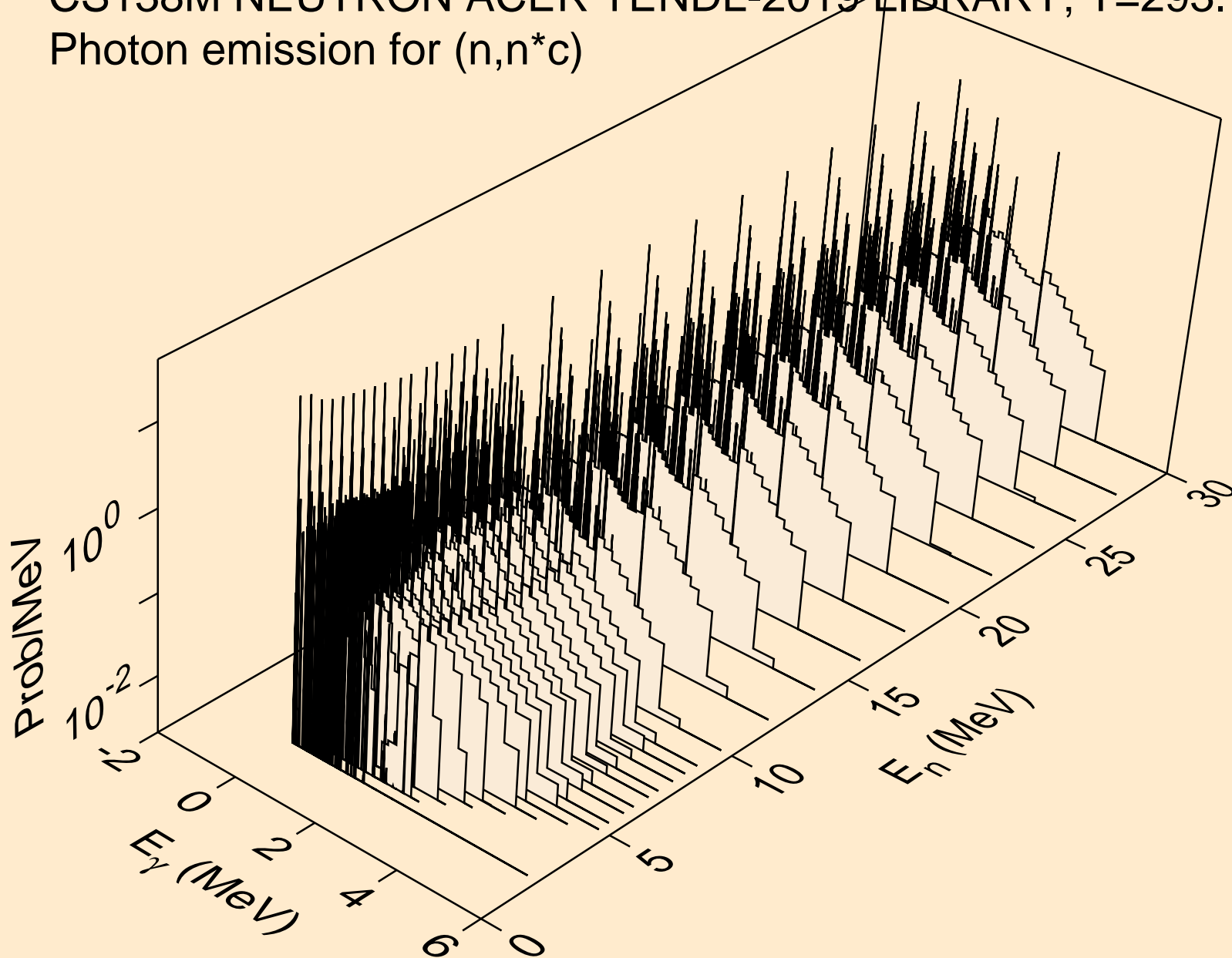
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Photon emission for (n,n\*22)



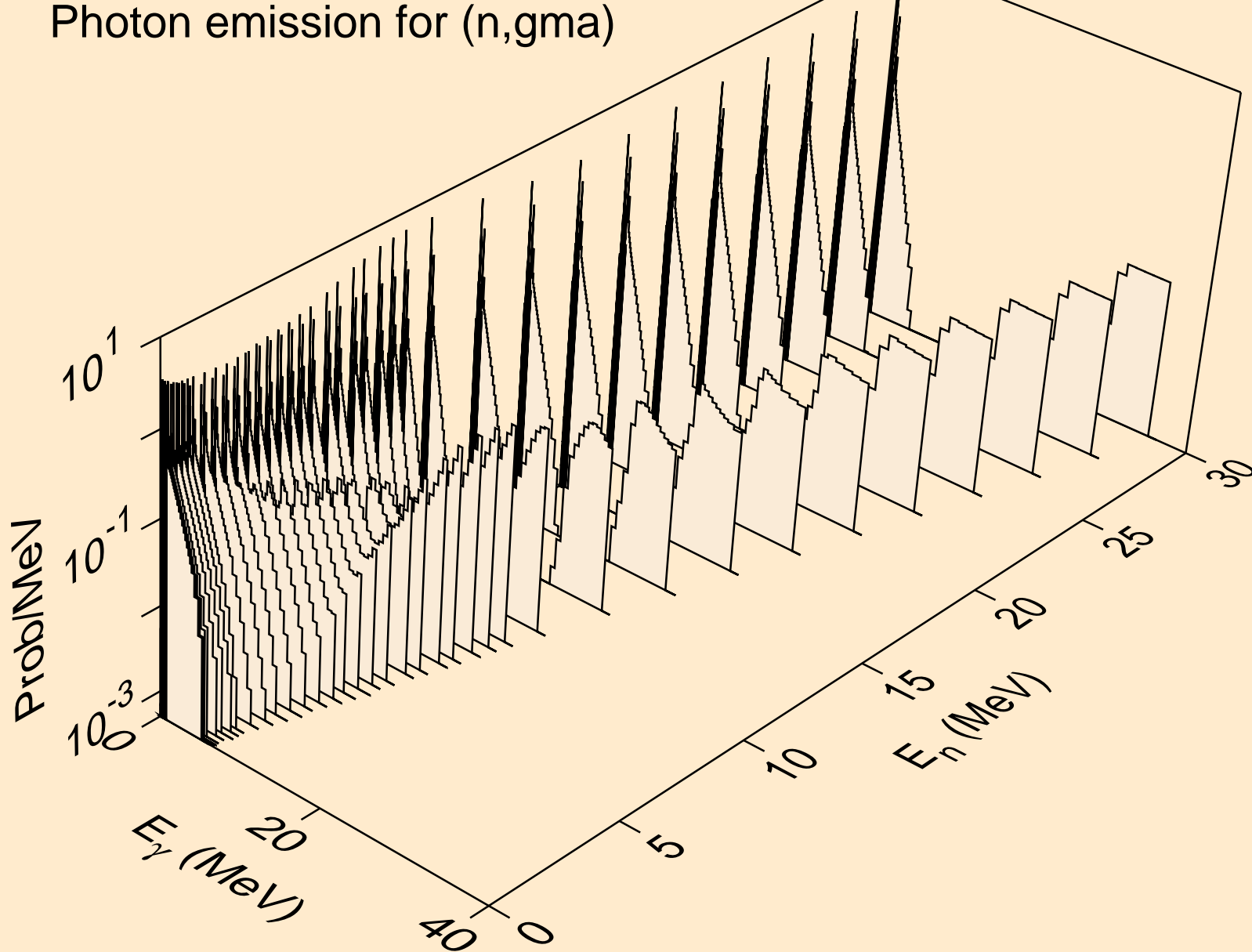
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Photon emission for (n,n\*23)



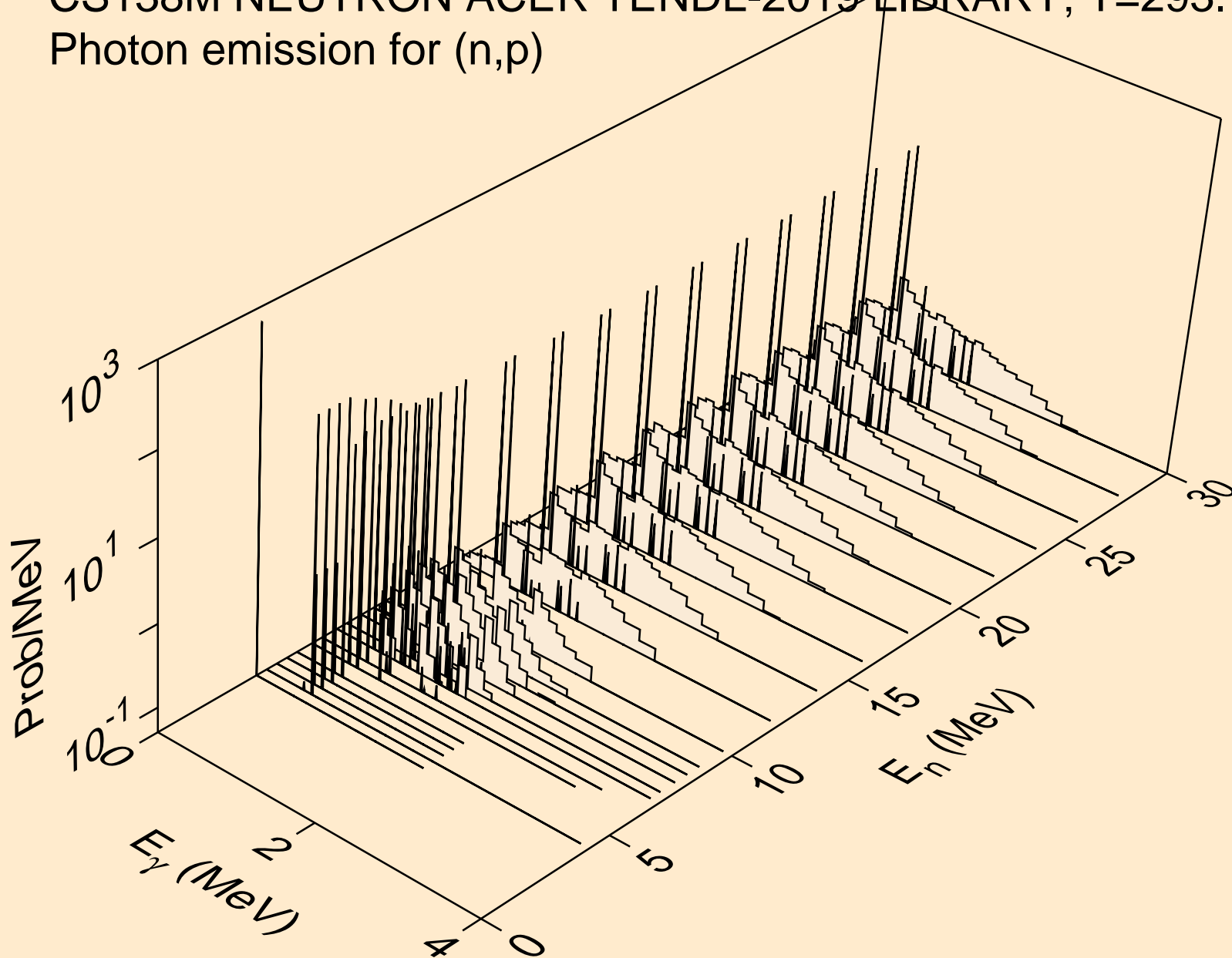
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Photon emission for (n,n\*c)



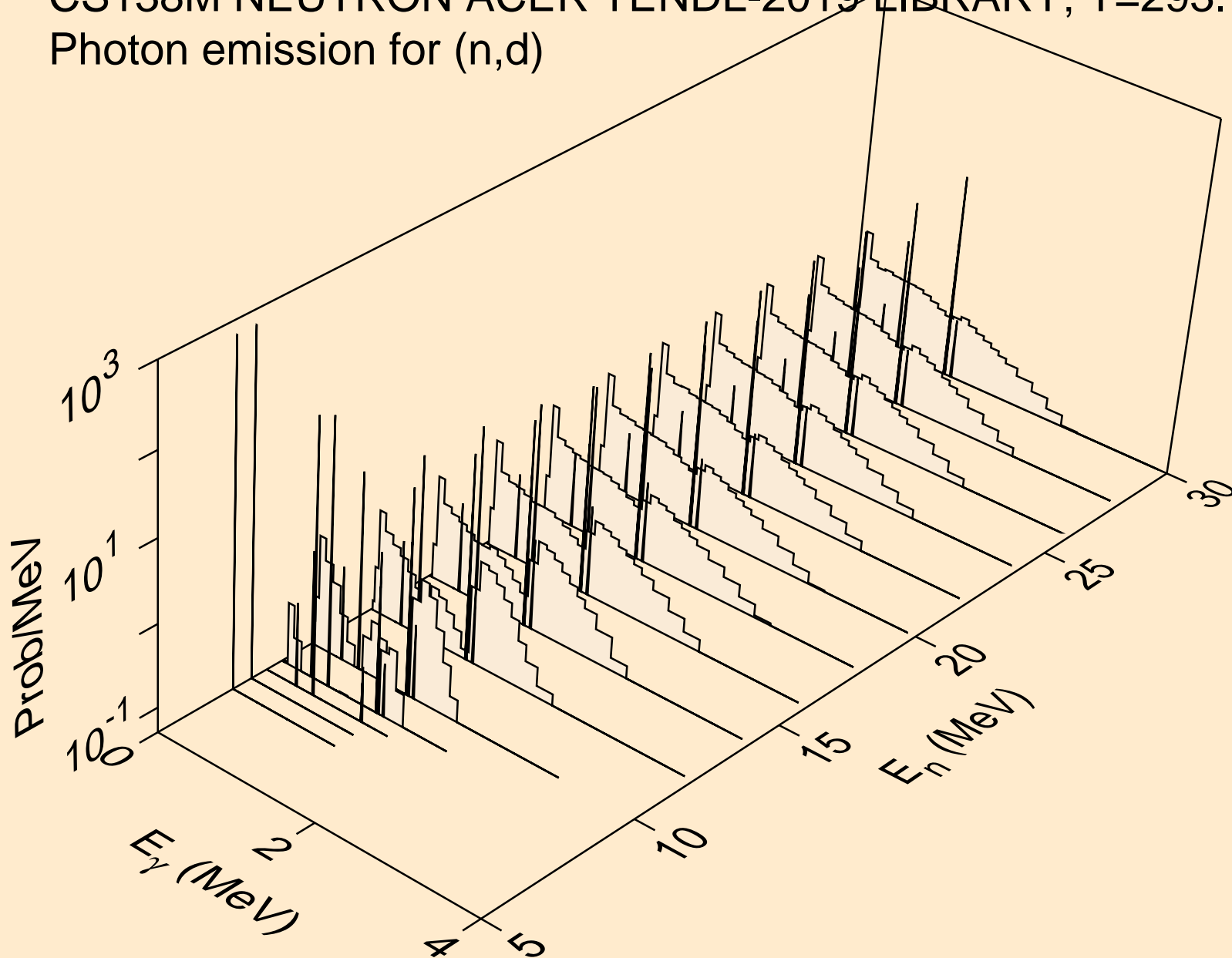
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Photon emission for (n,gma)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

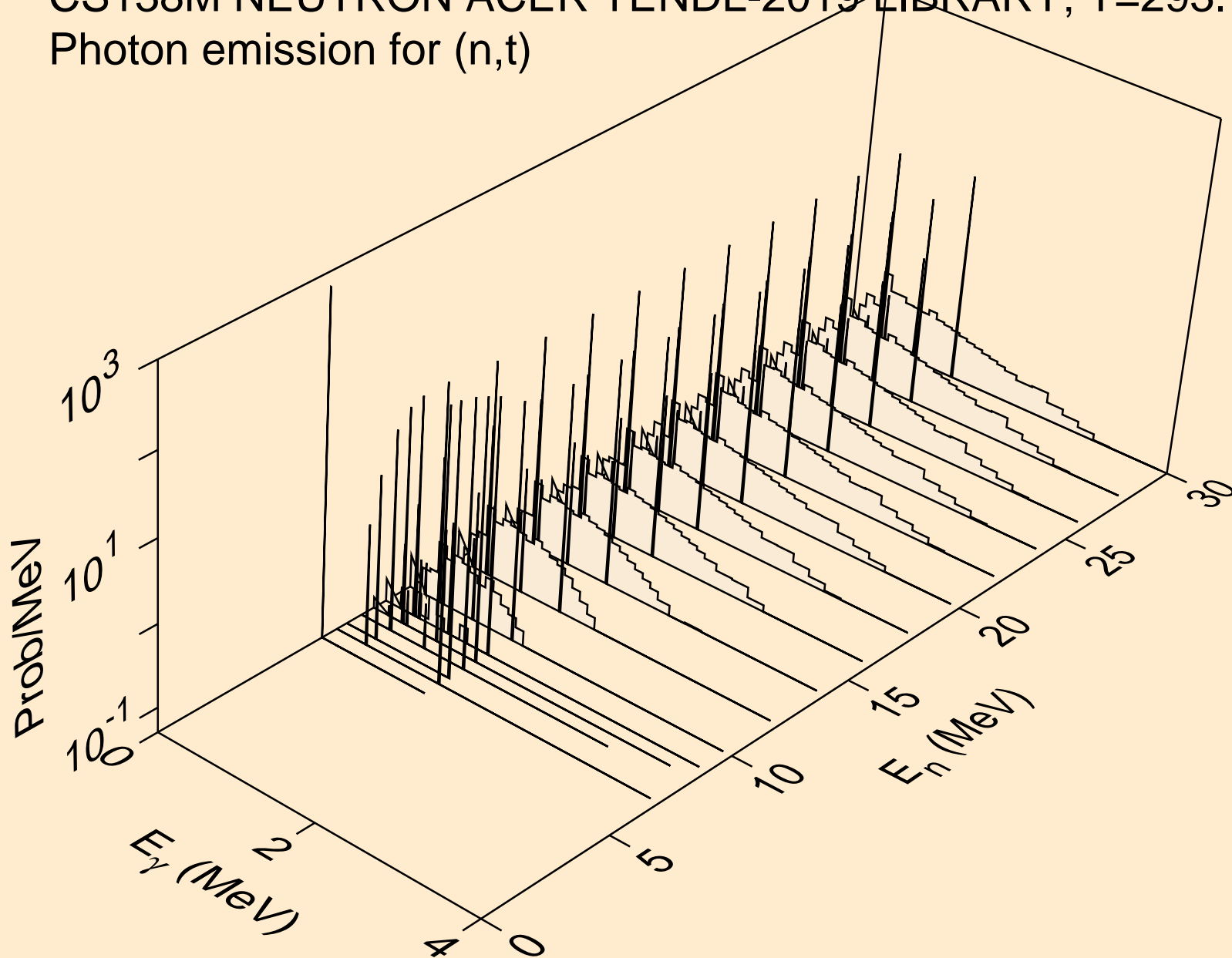


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Photon emission for (n,d)

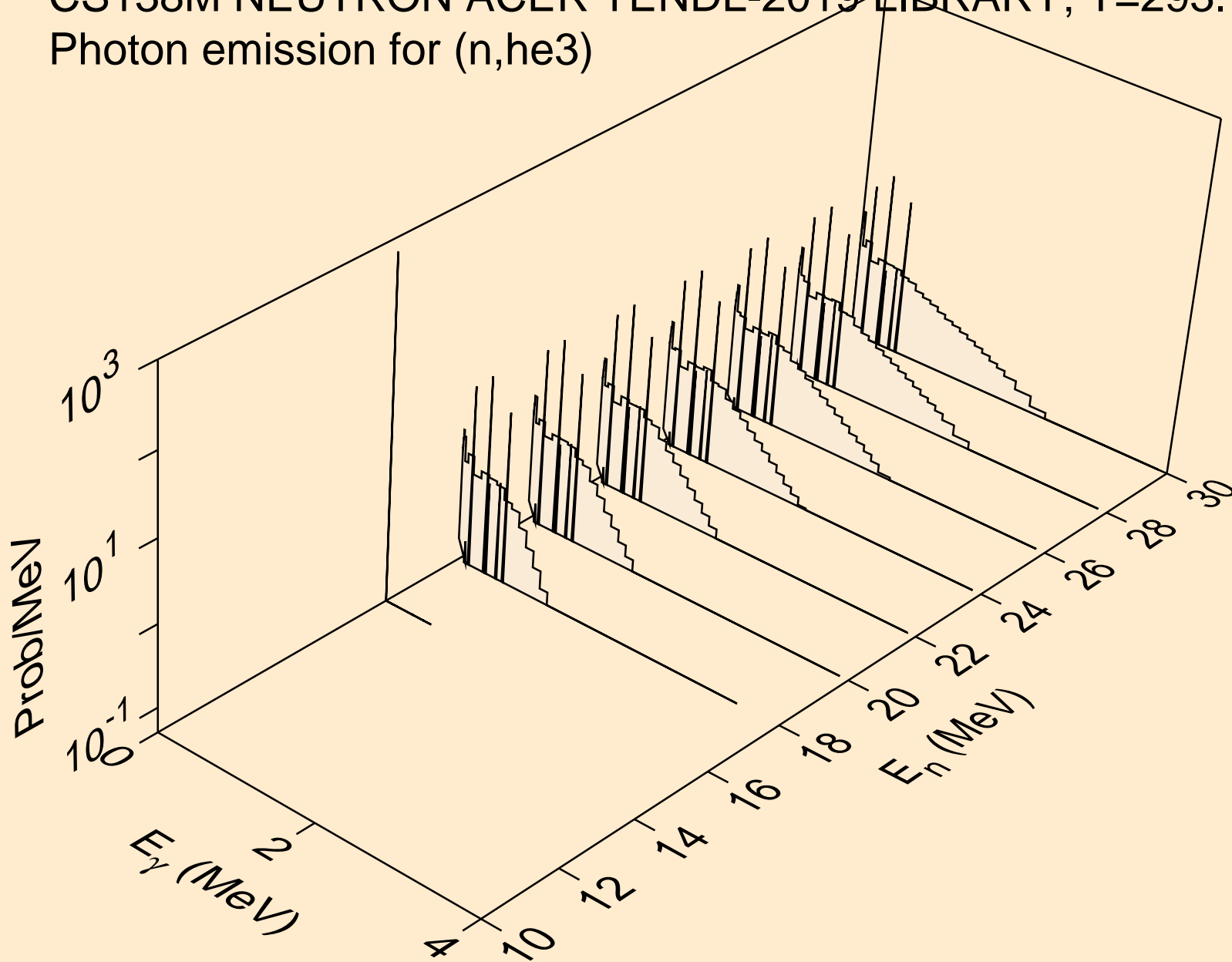




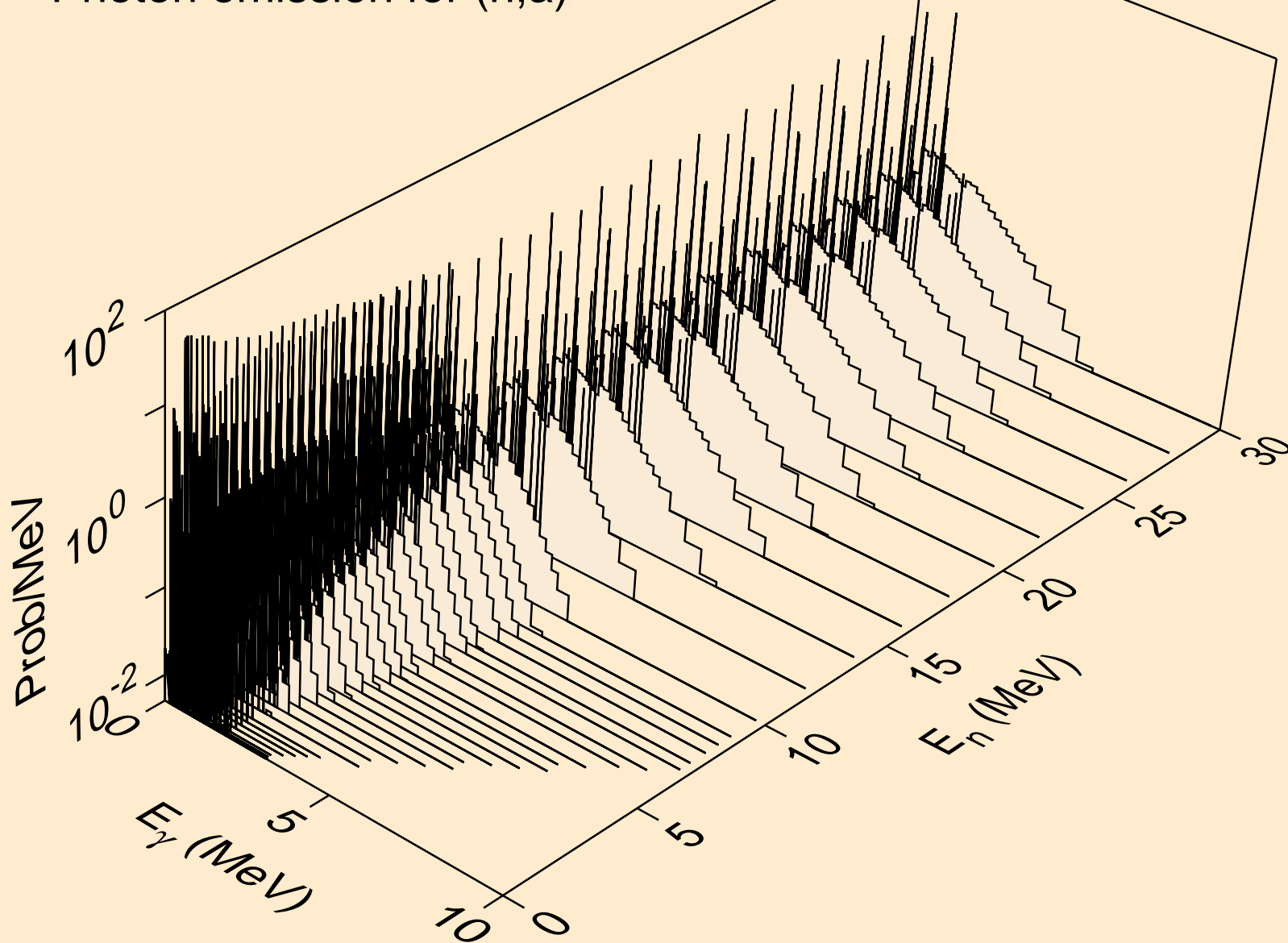
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Photon emission for (n,t)



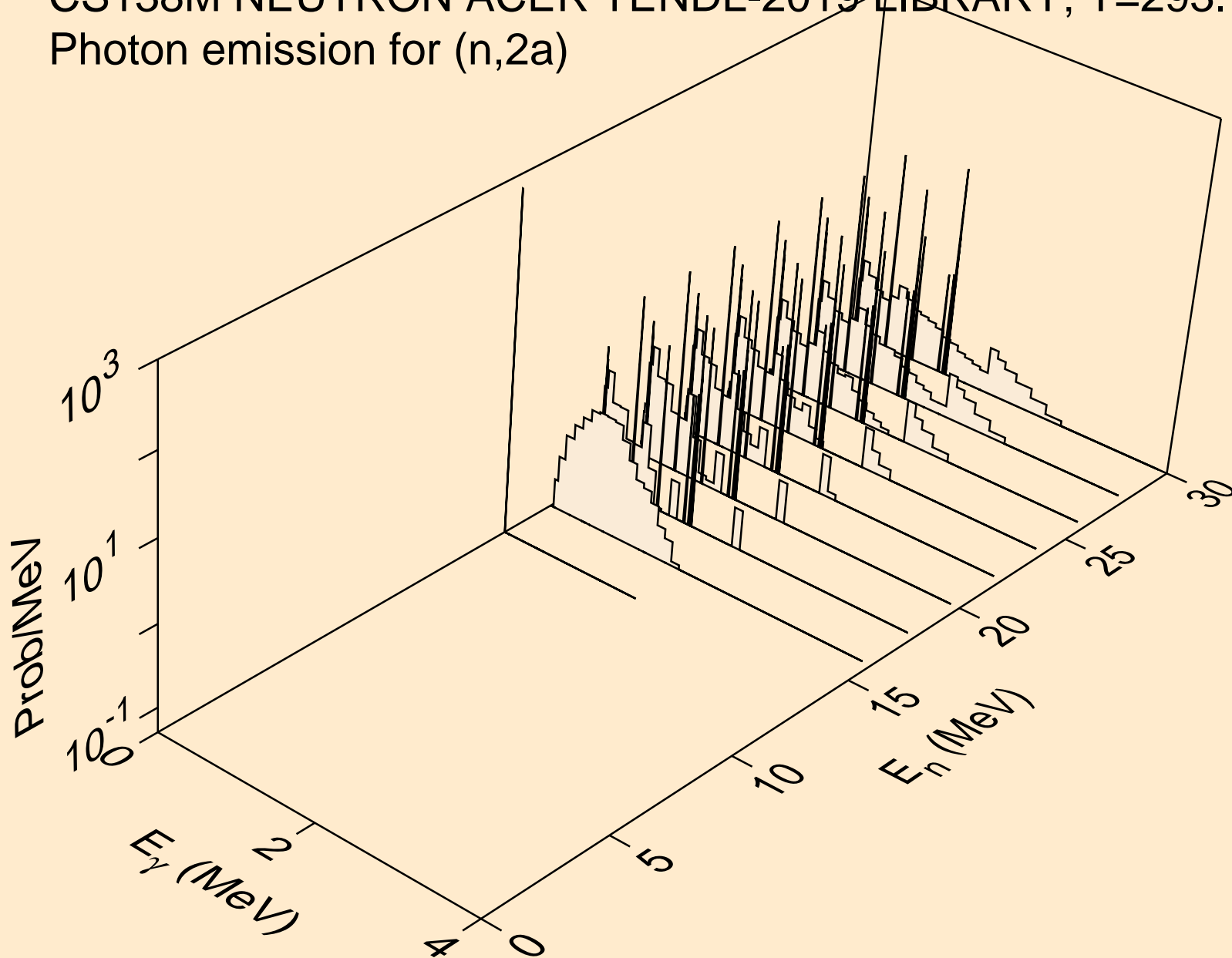
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Photon emission for (n,he3)



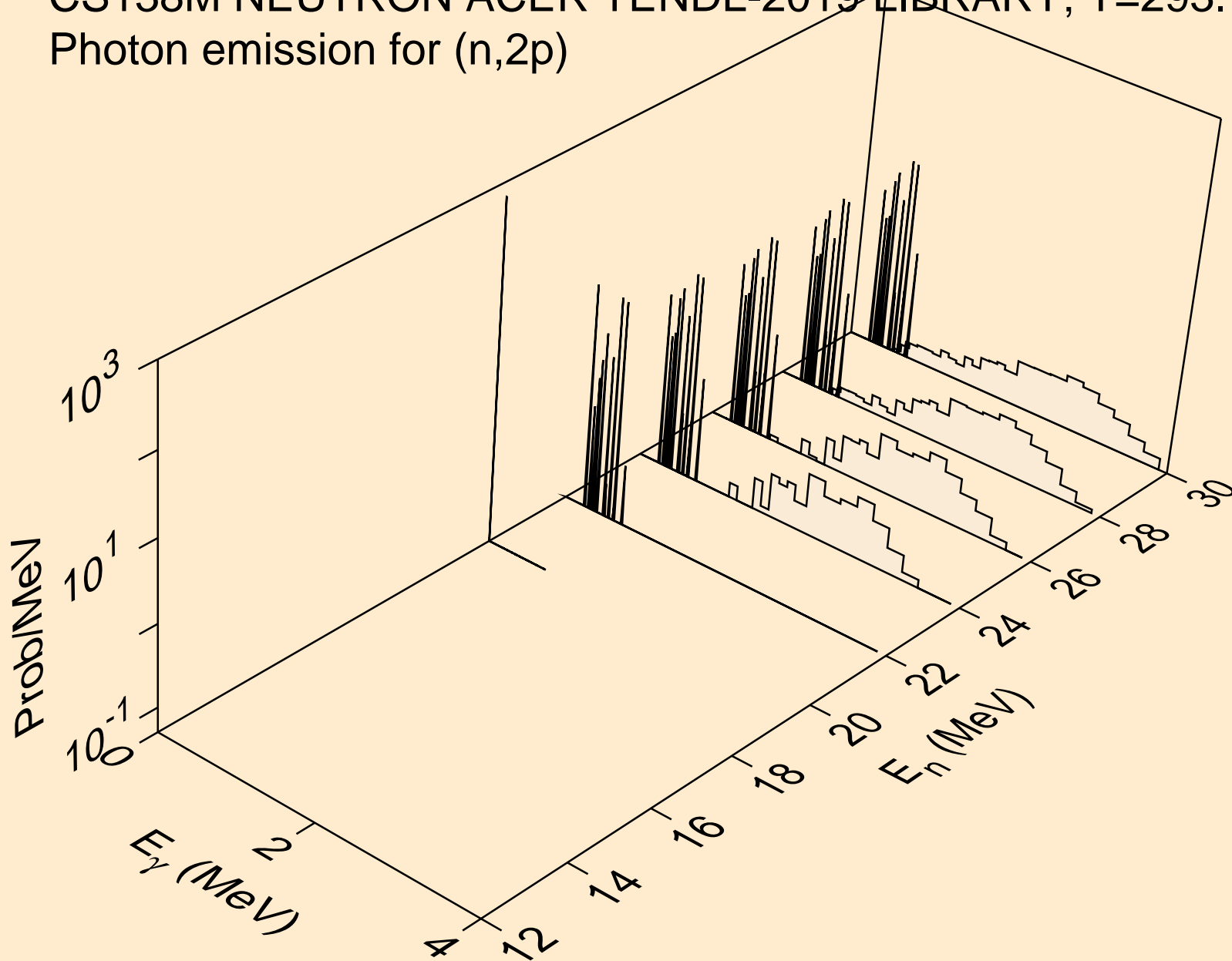
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Photon emission for (n,a)



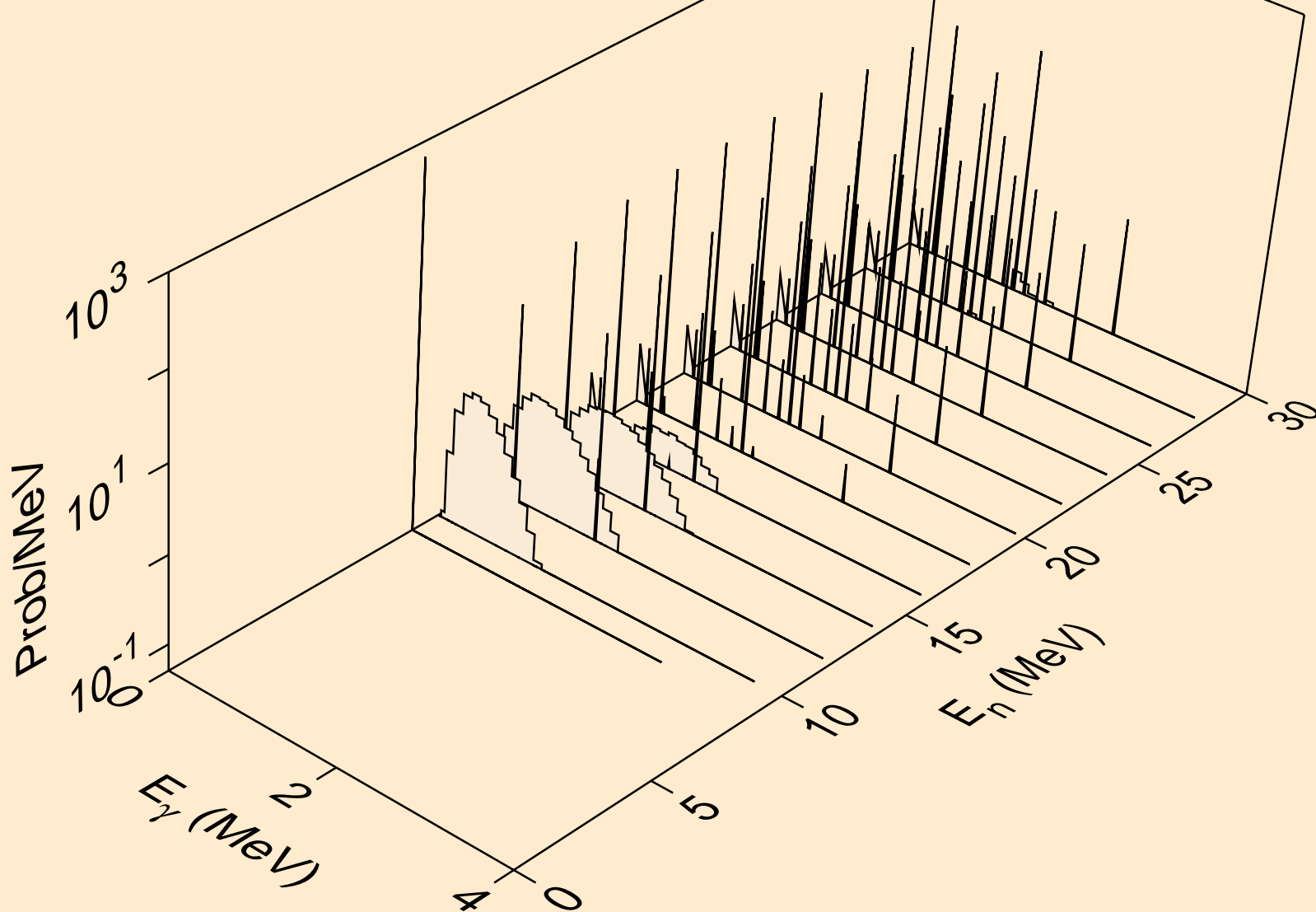
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Photon emission for (n,2a)



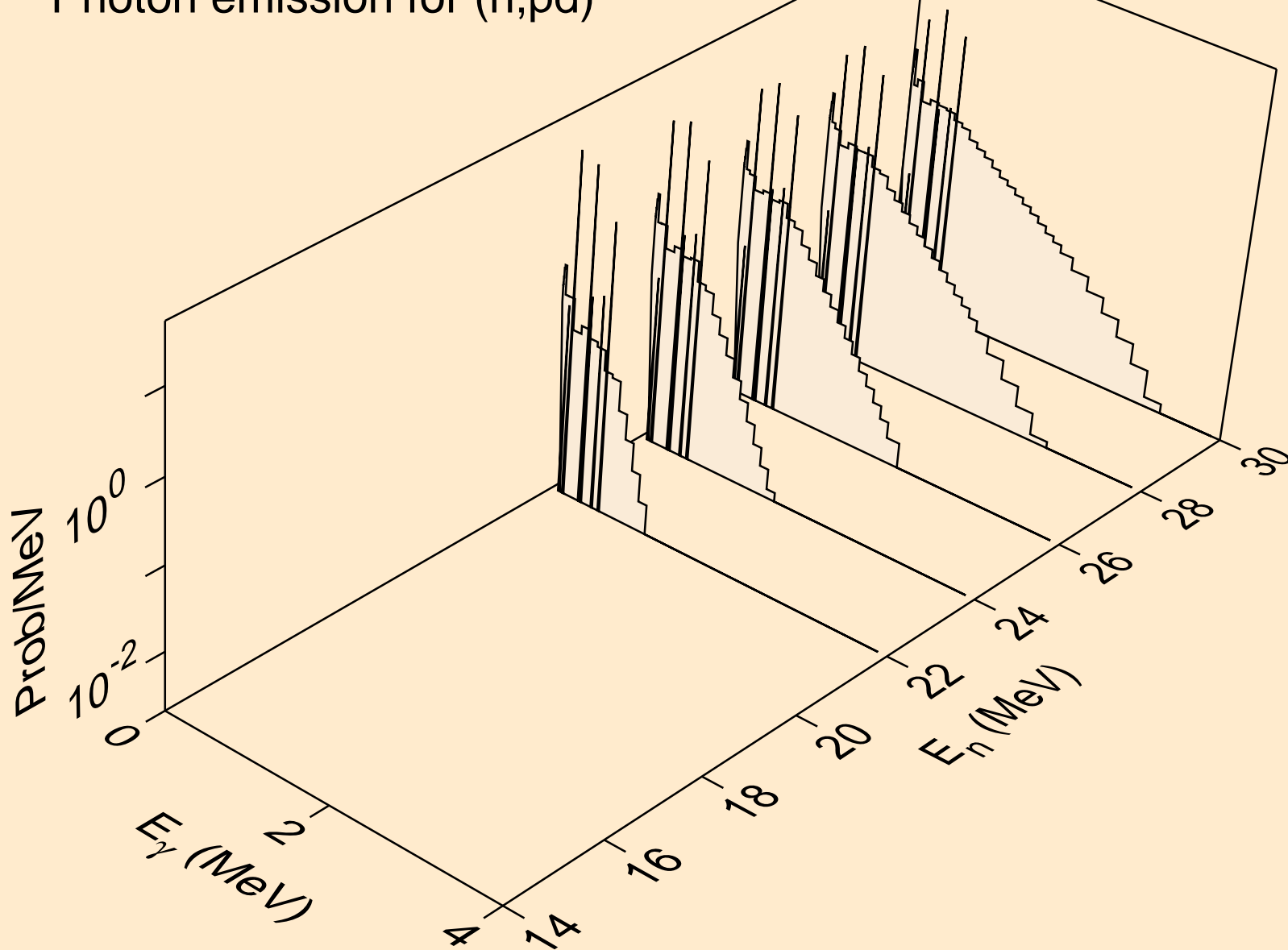
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Photon emission for (n,2p)



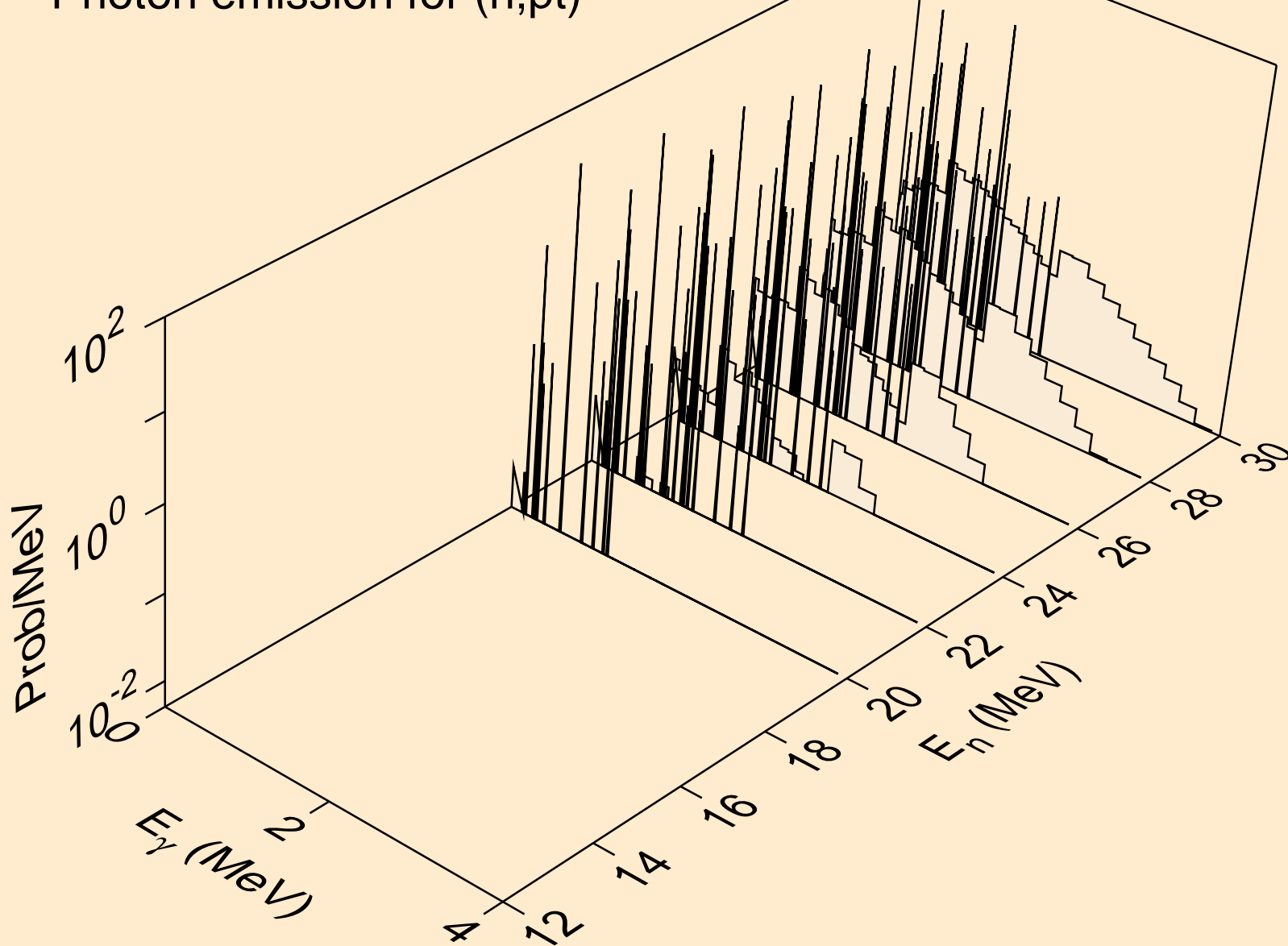
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Photon emission for (n,p $\alpha$ )



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)

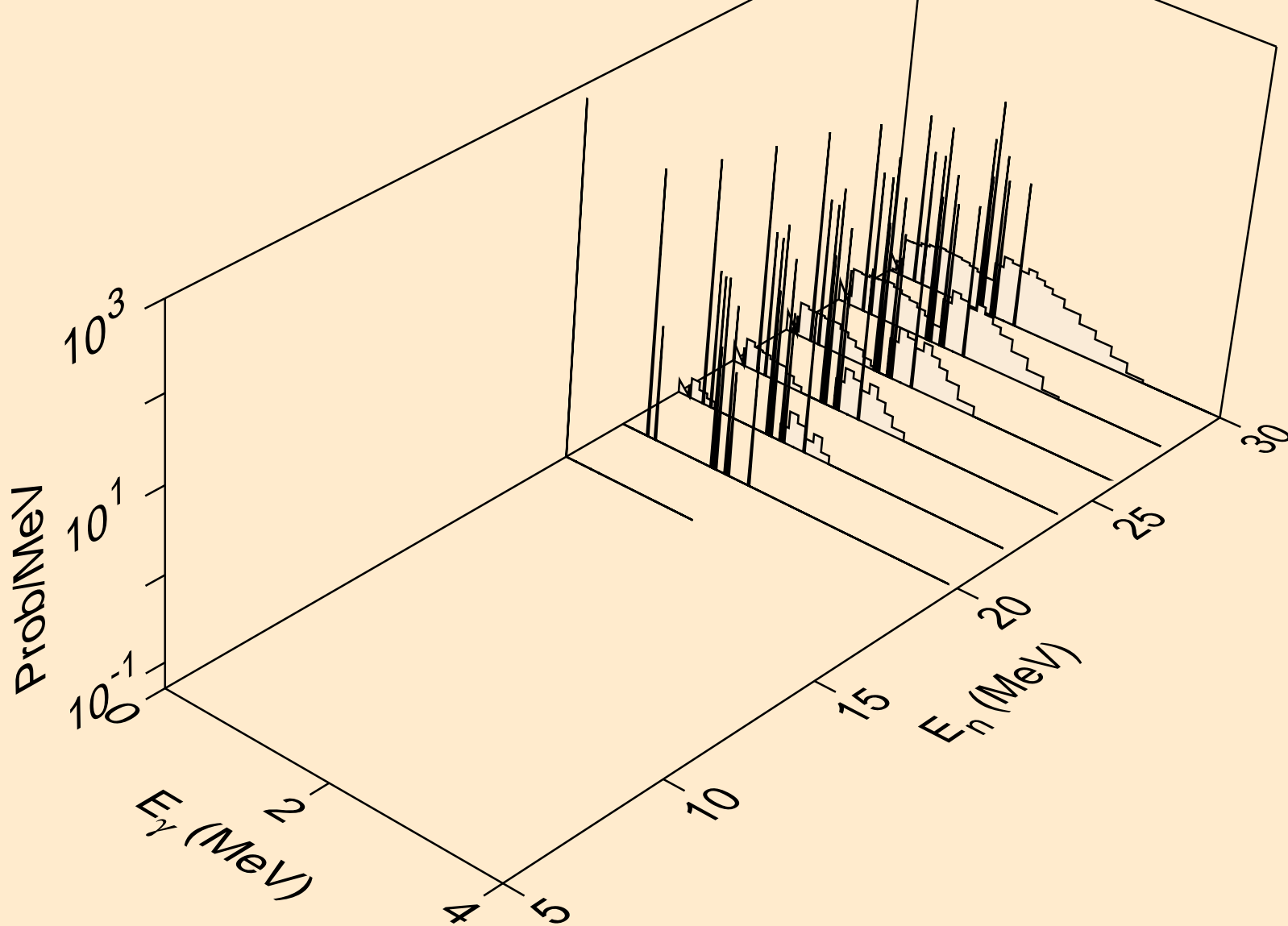


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Photon emission for (n,pt)

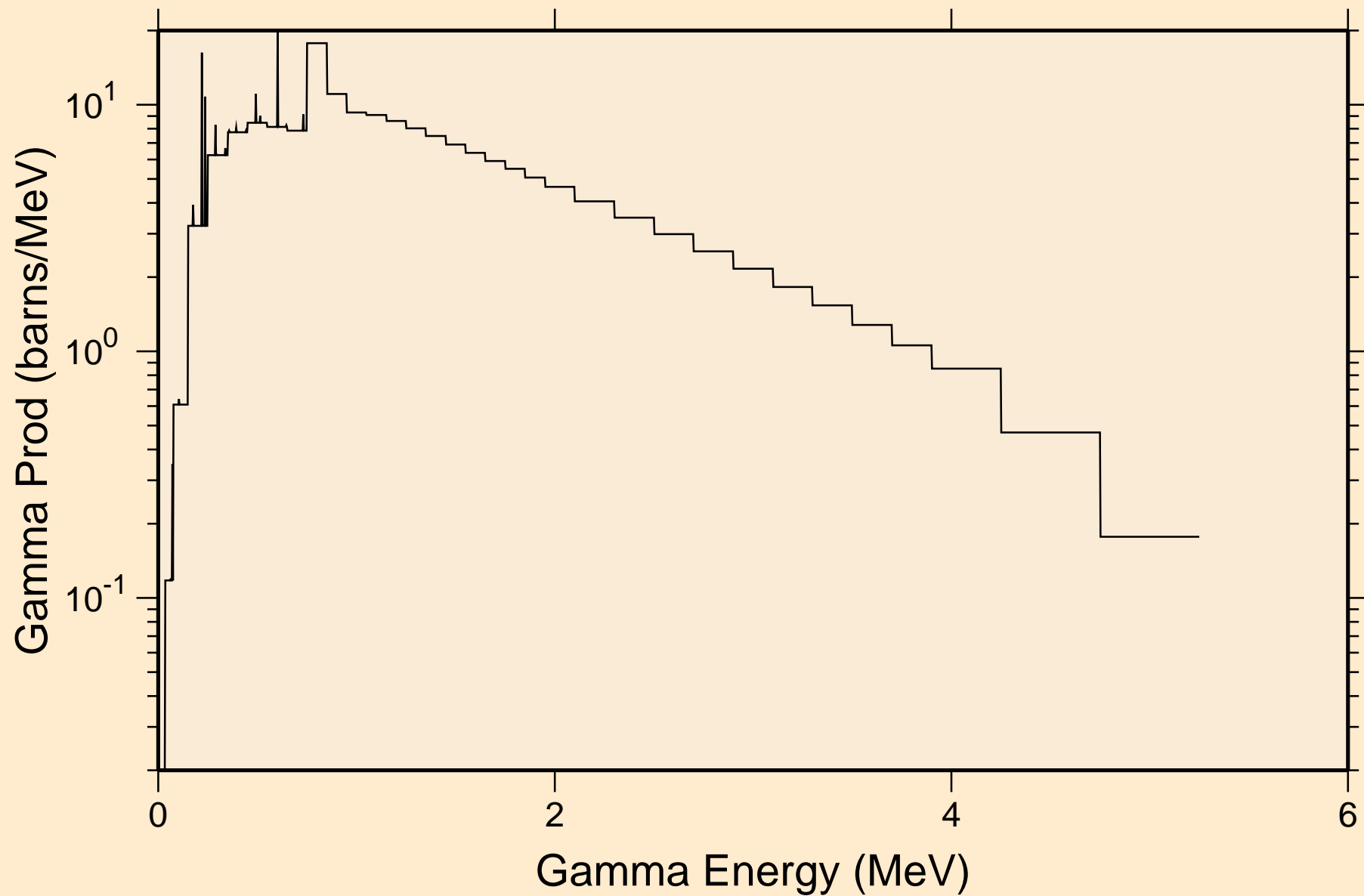




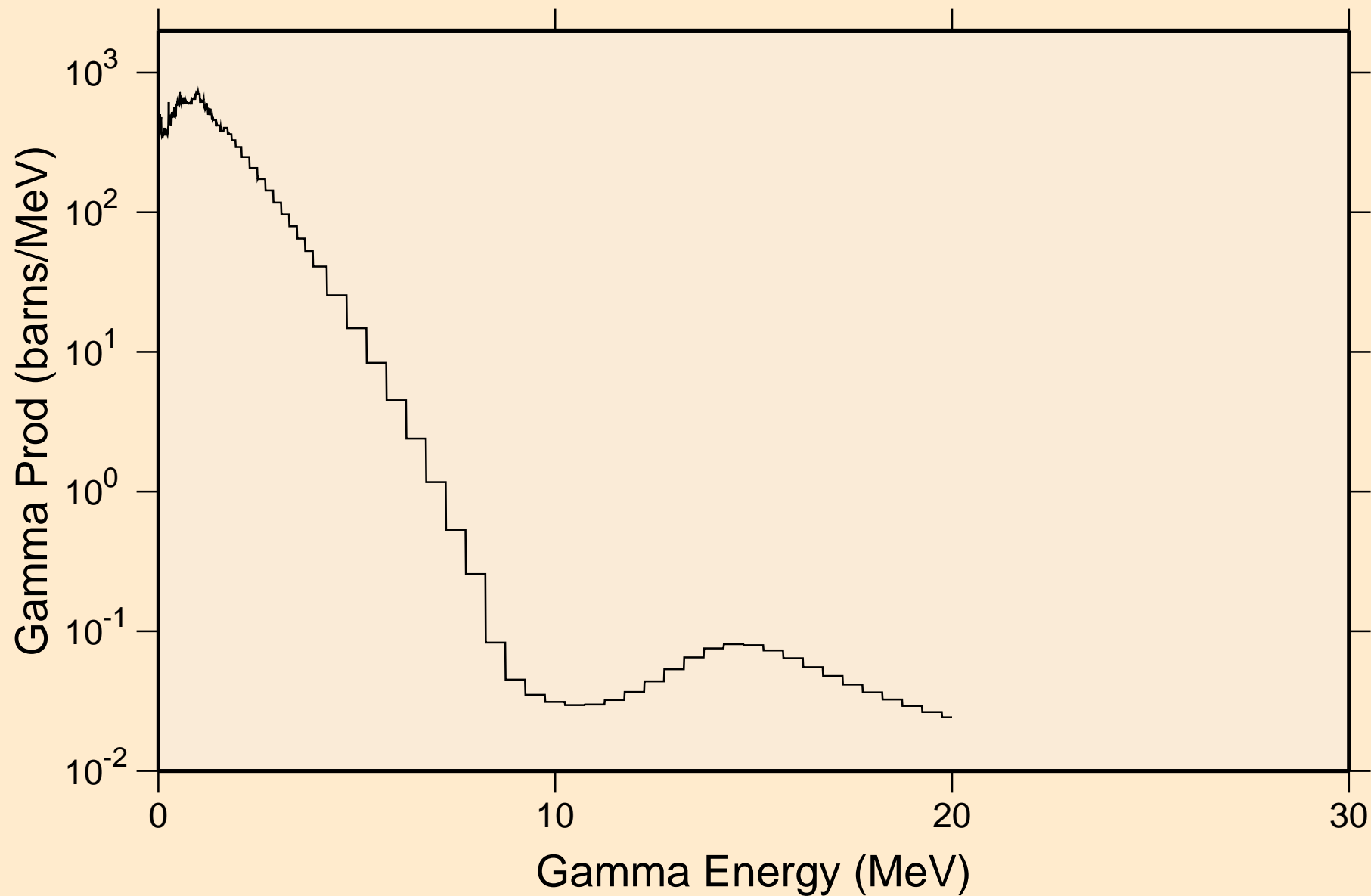
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Photon emission for (n,da)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

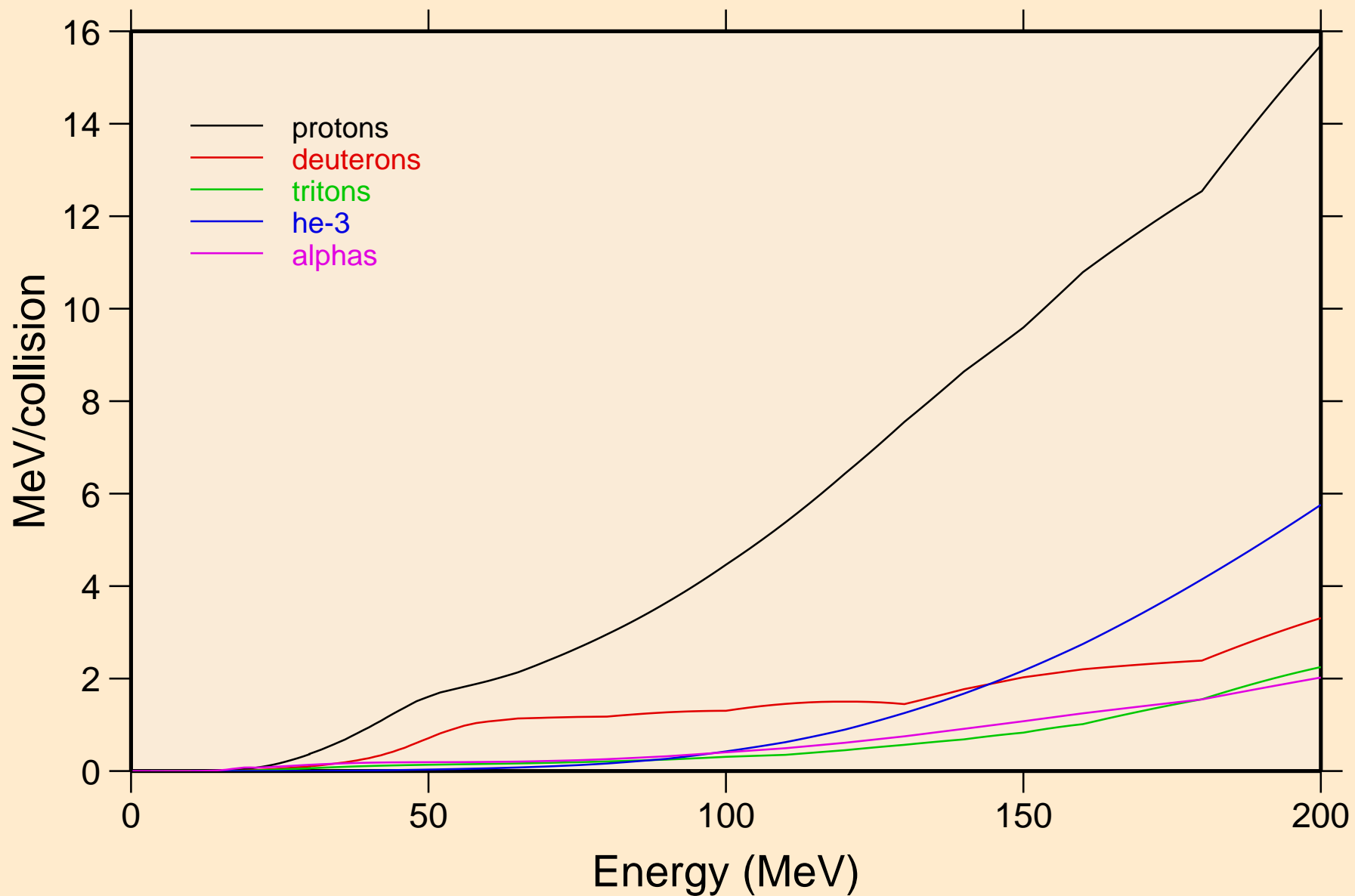


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

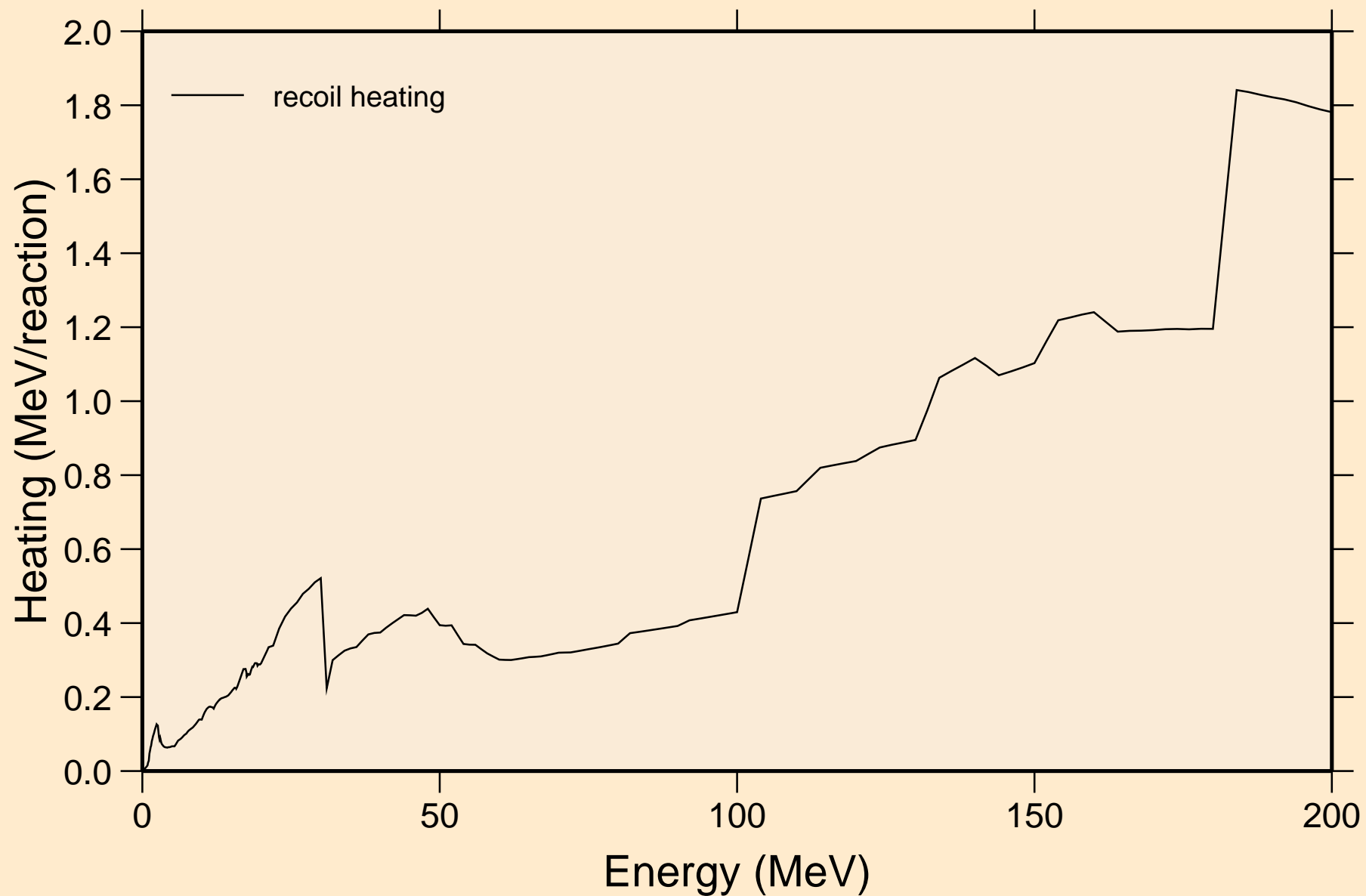


# CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

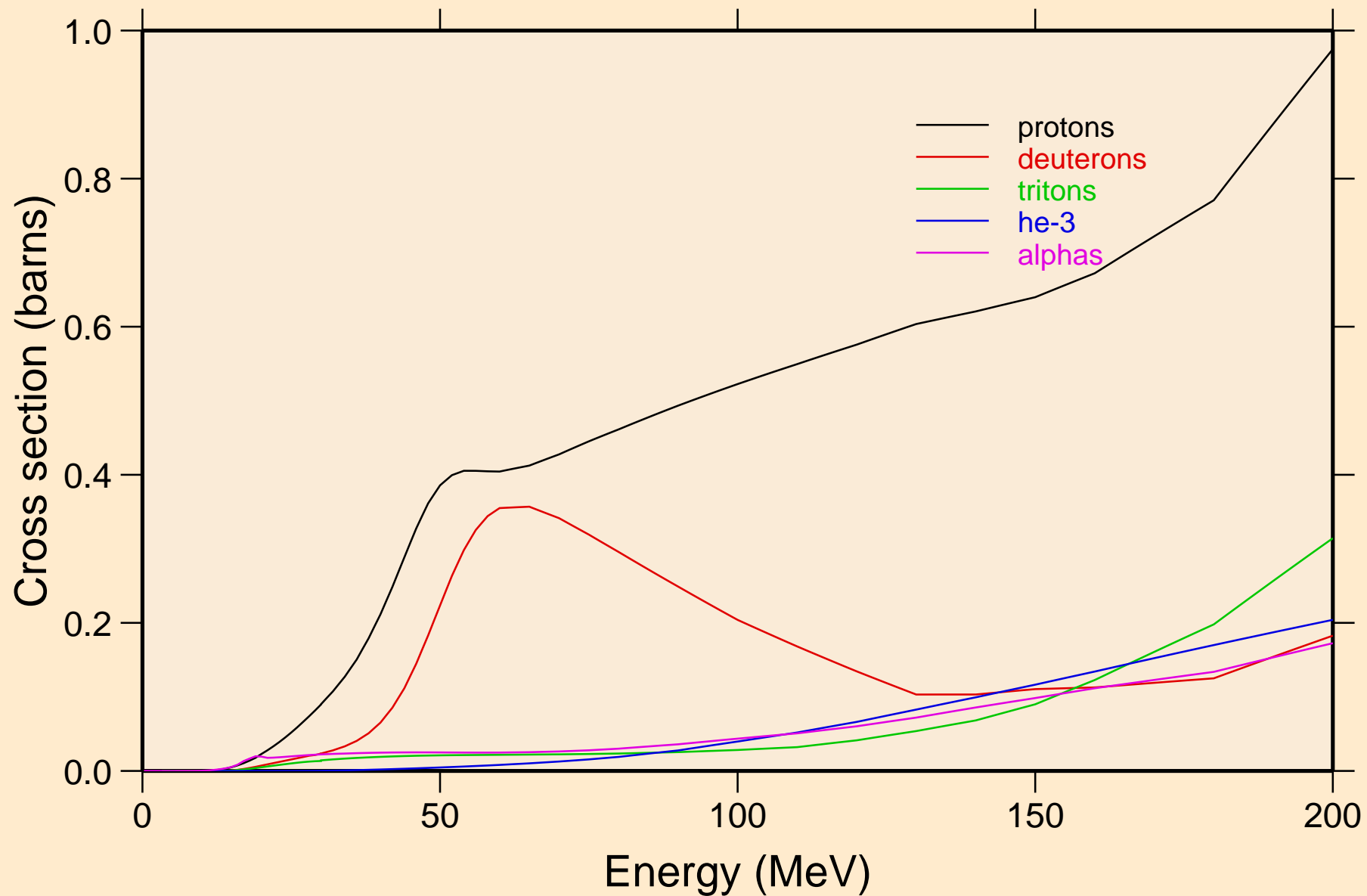
## Particle heating contributions



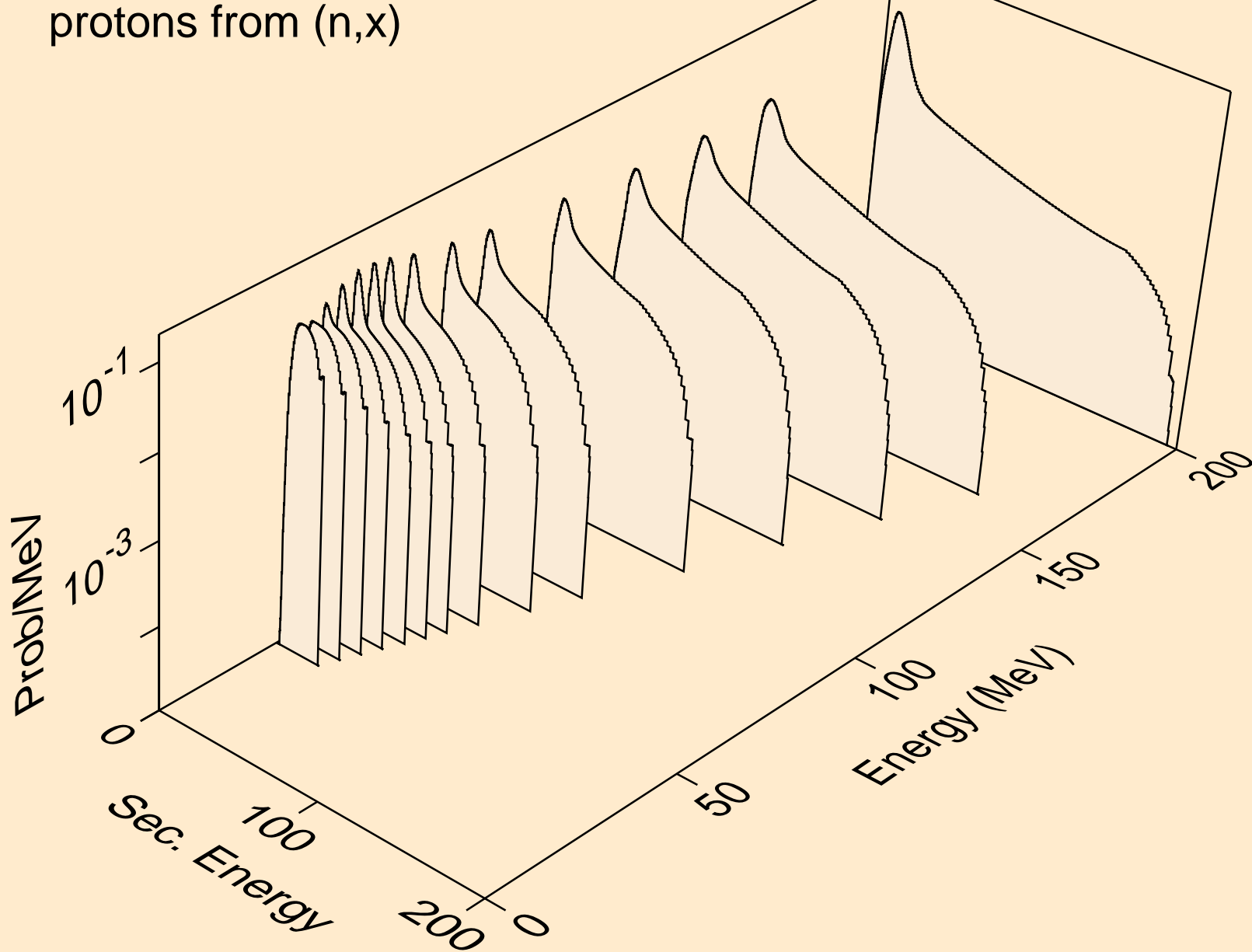
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Recoil Heating



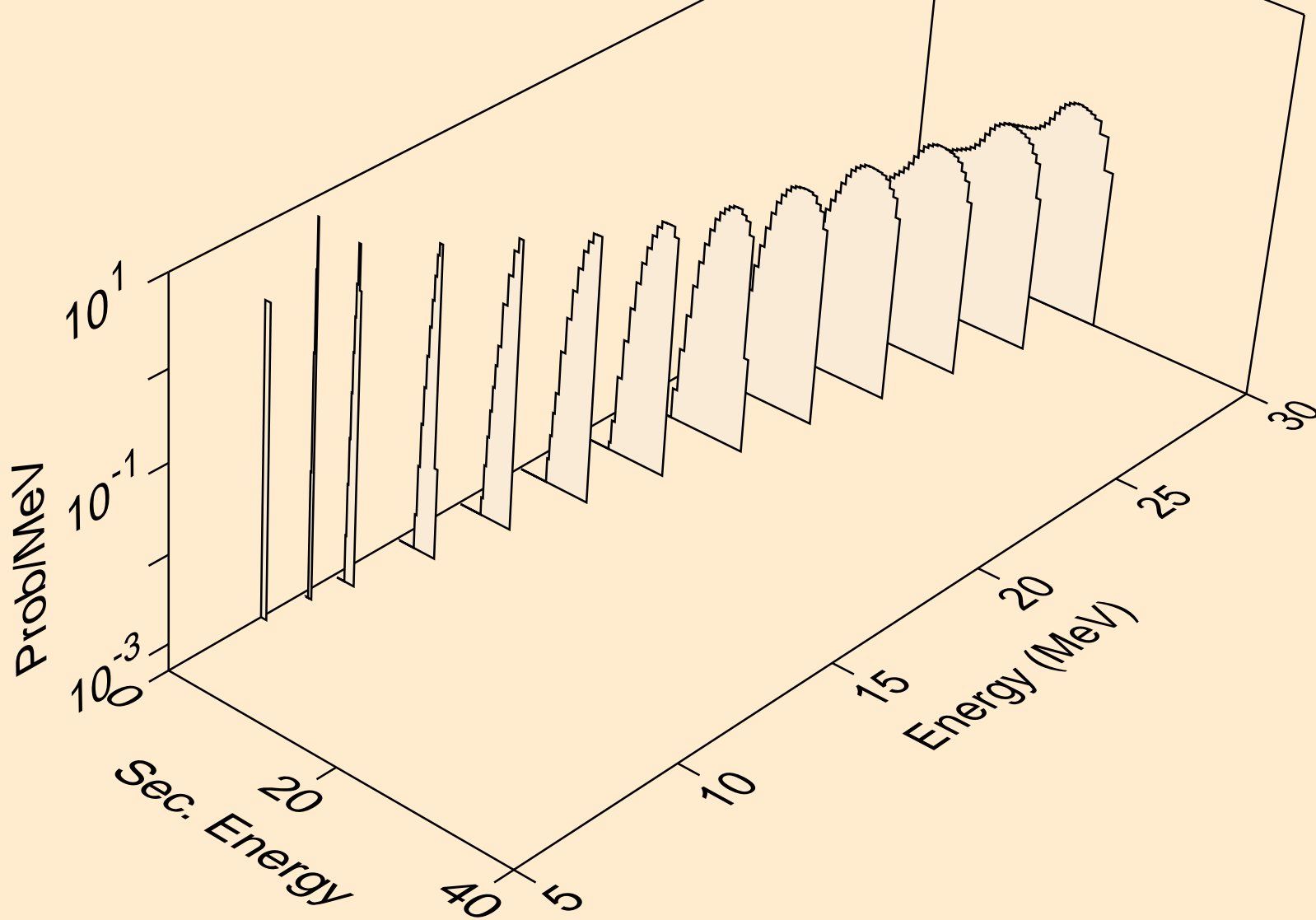
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Particle production cross sections



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

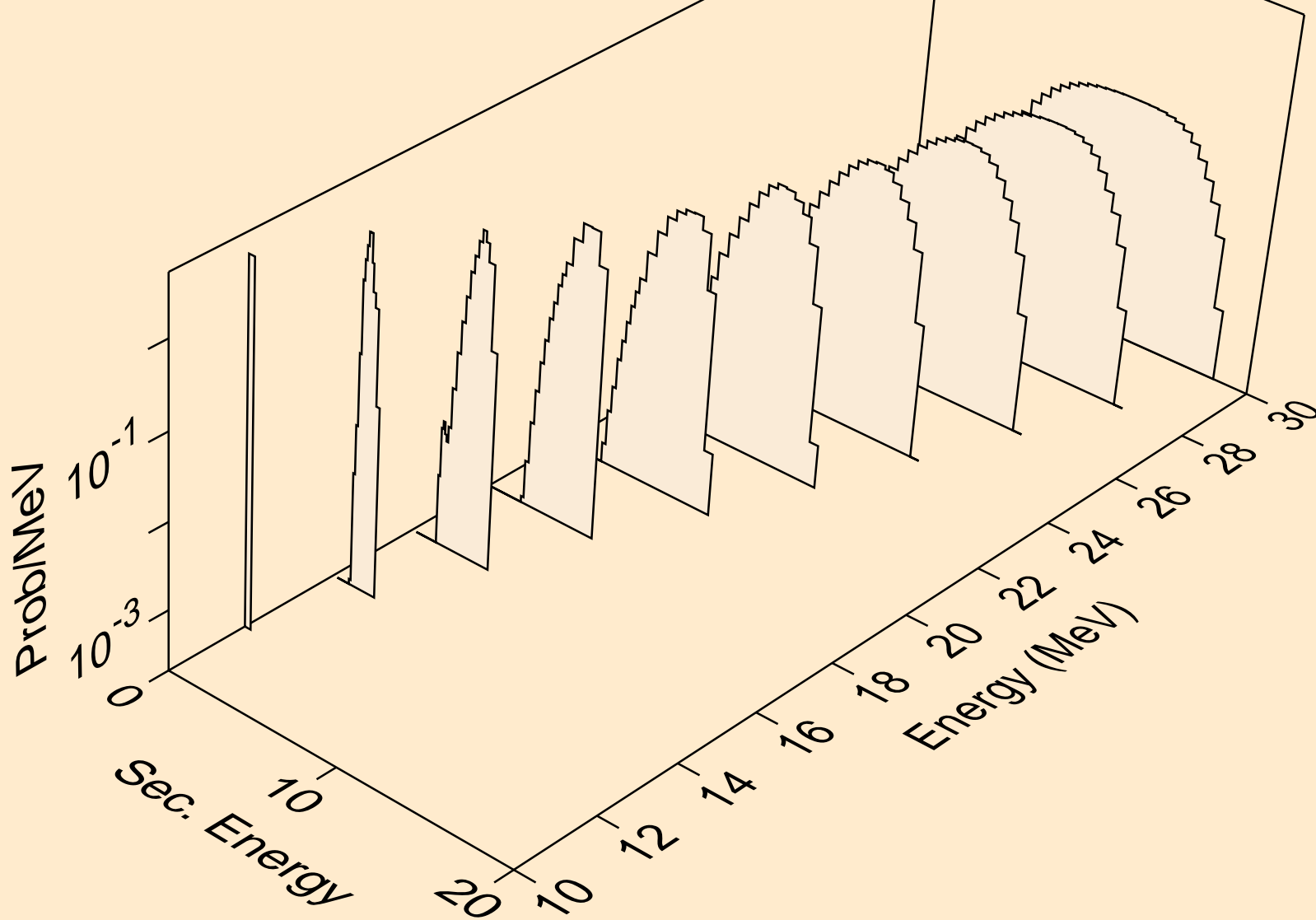


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protons from (n,n\*)p

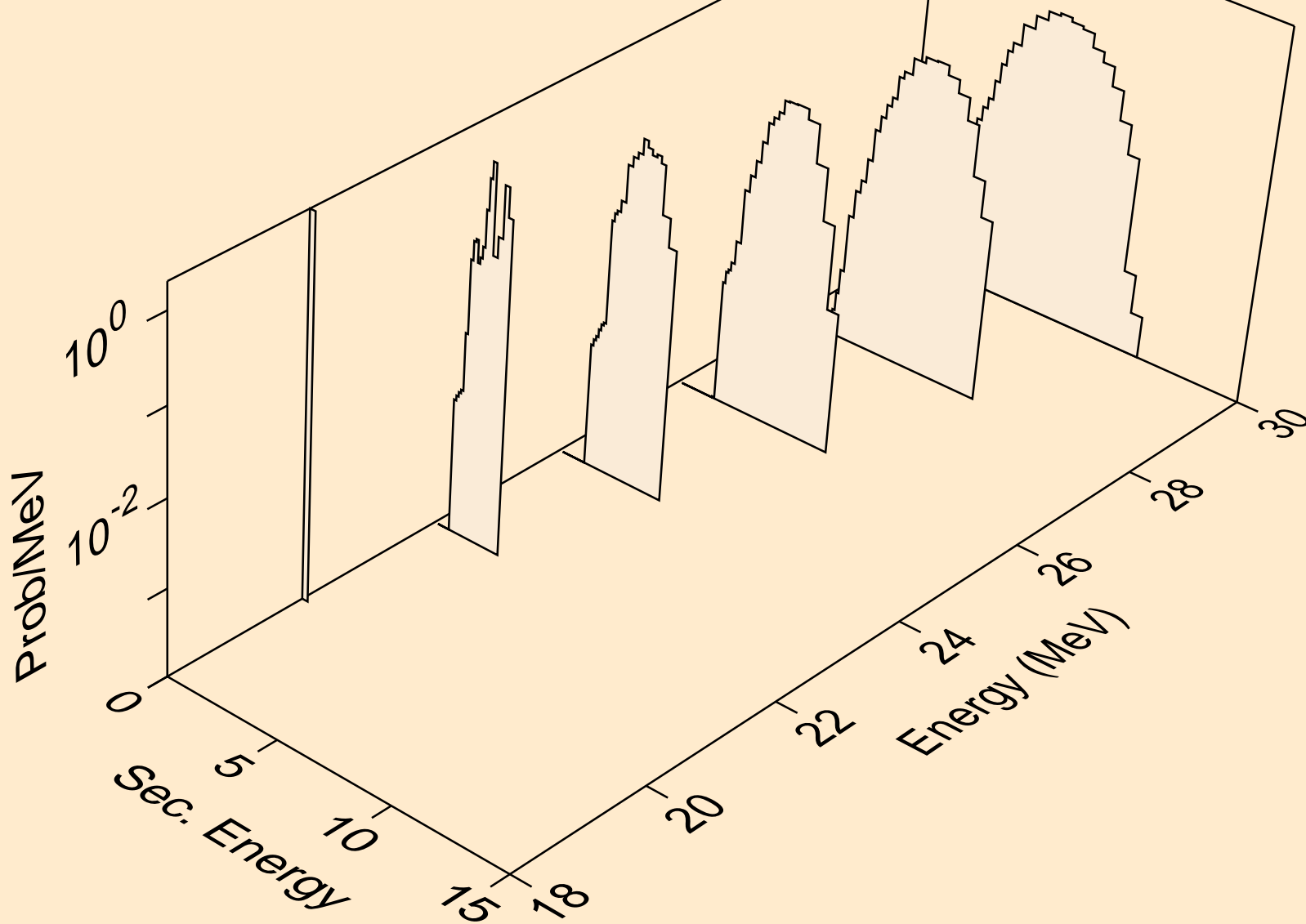




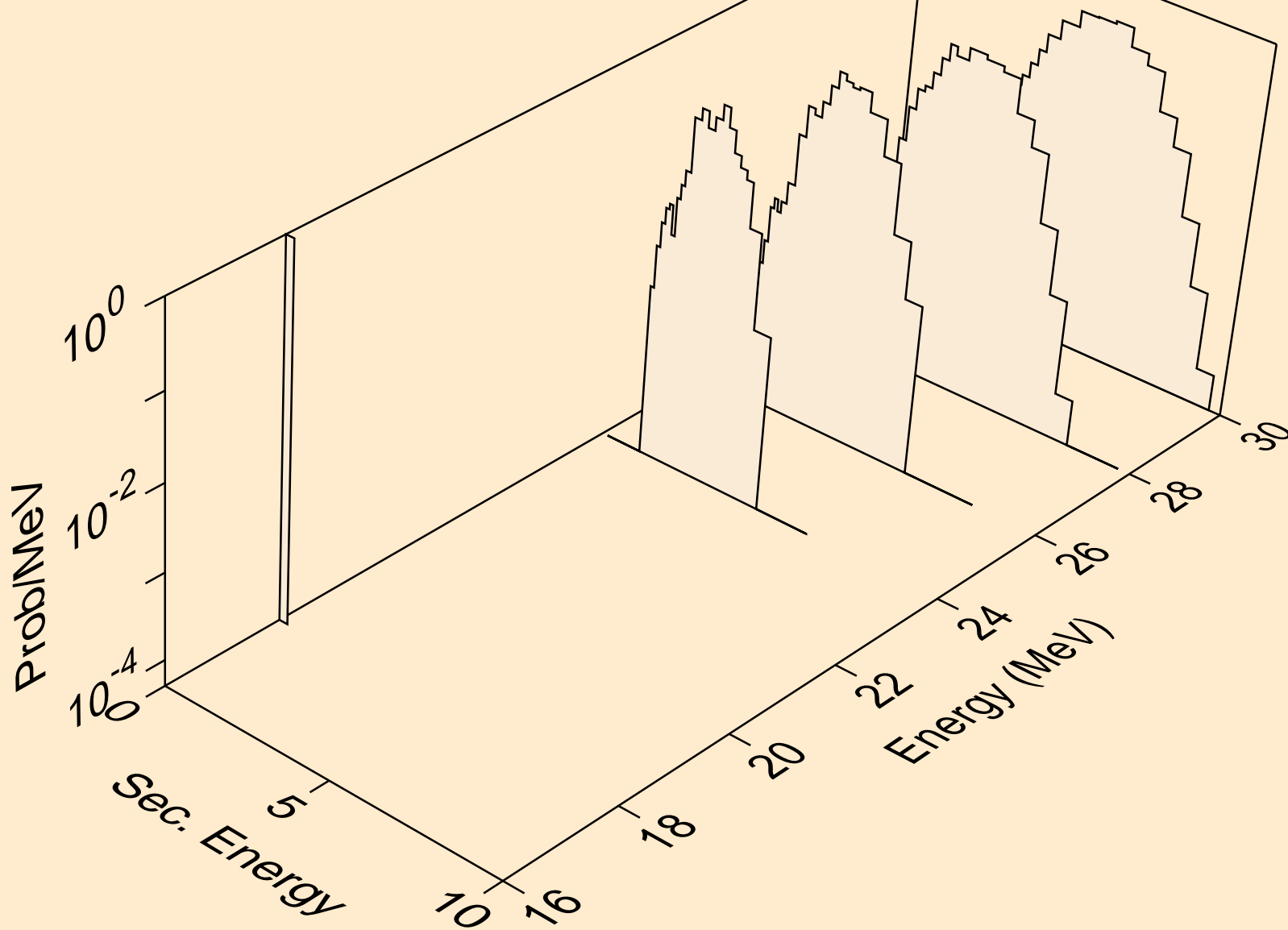
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protons from (n,2np)



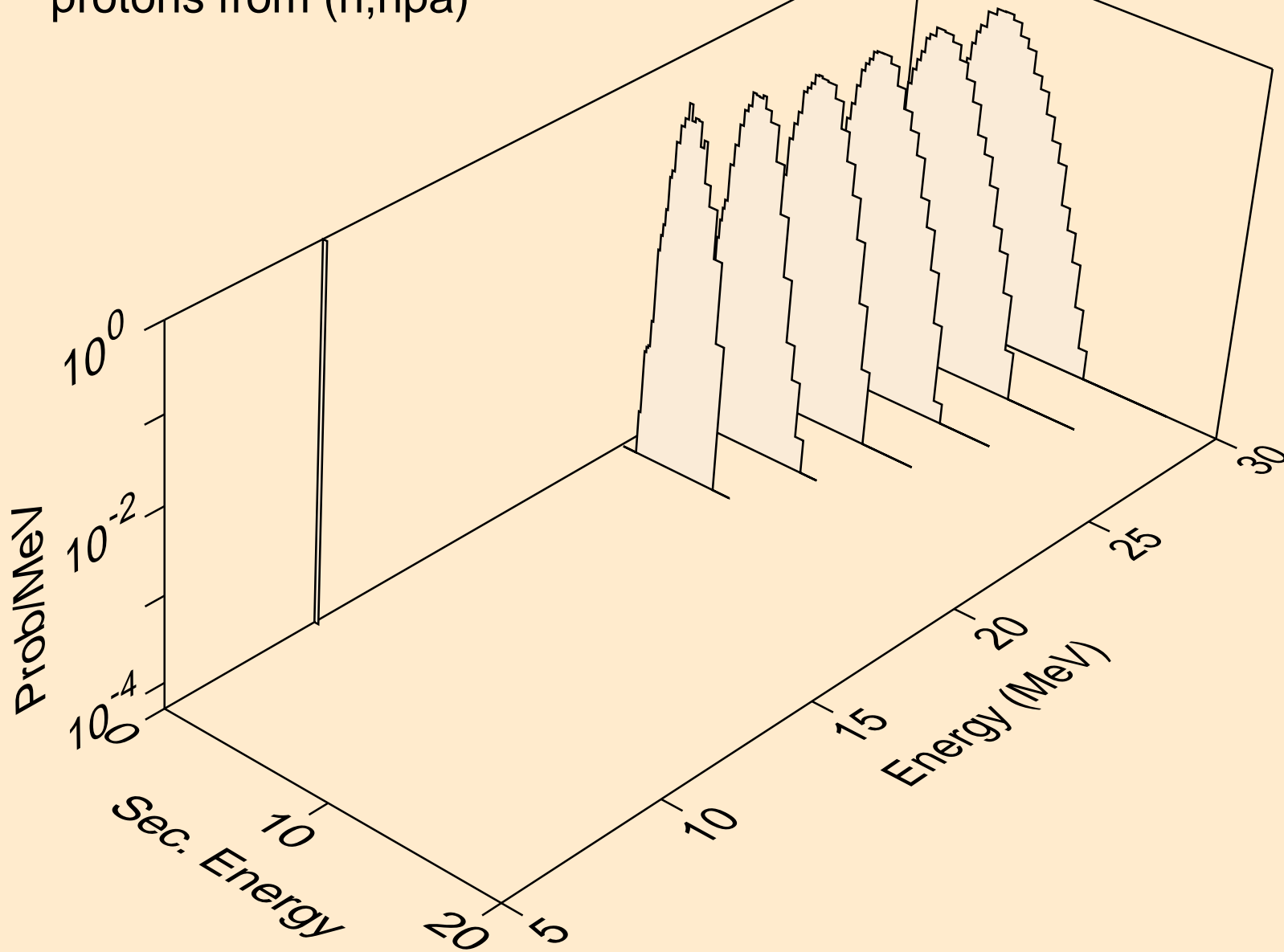
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protons from (n,3np)



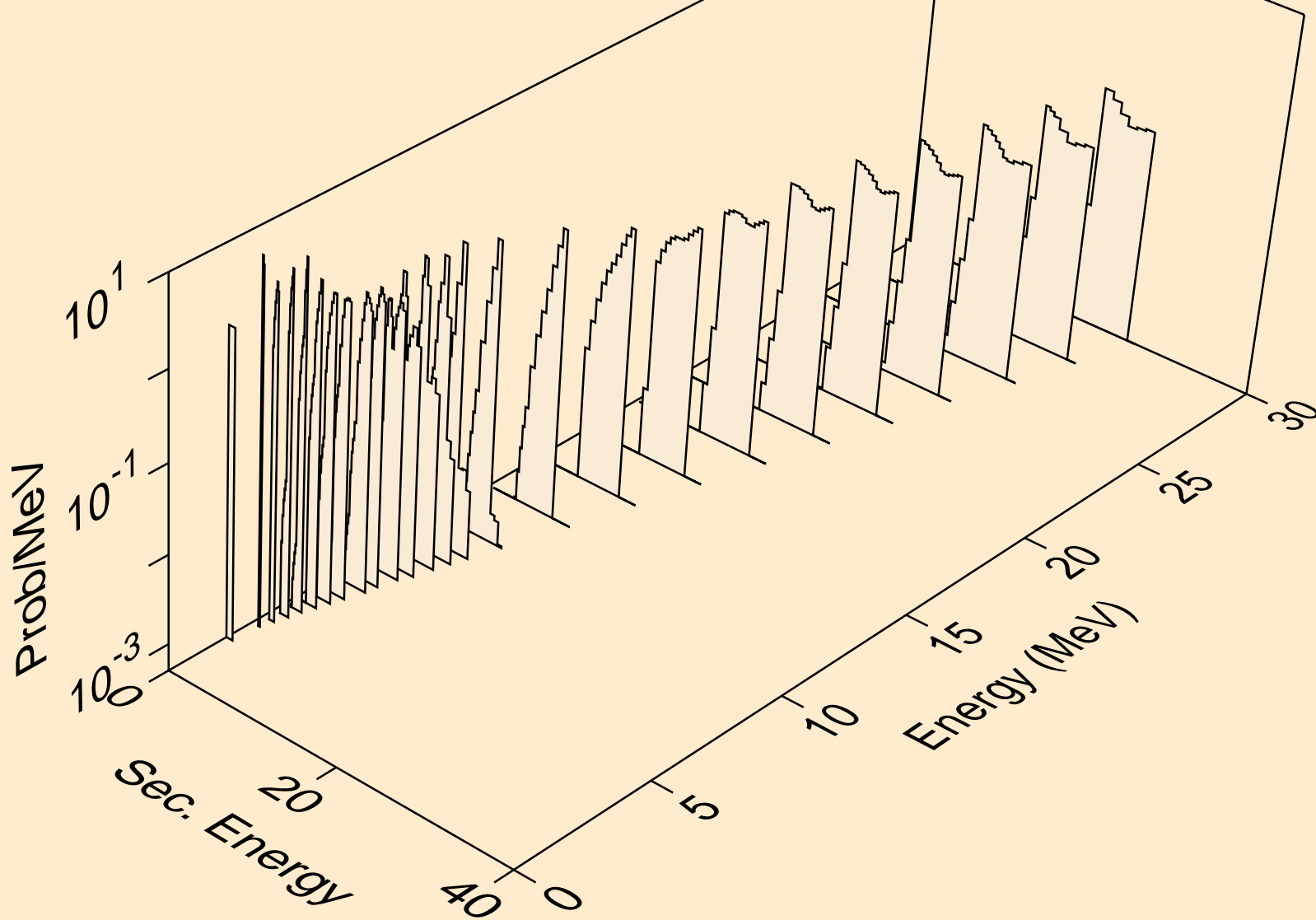
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protons from (n,2np)



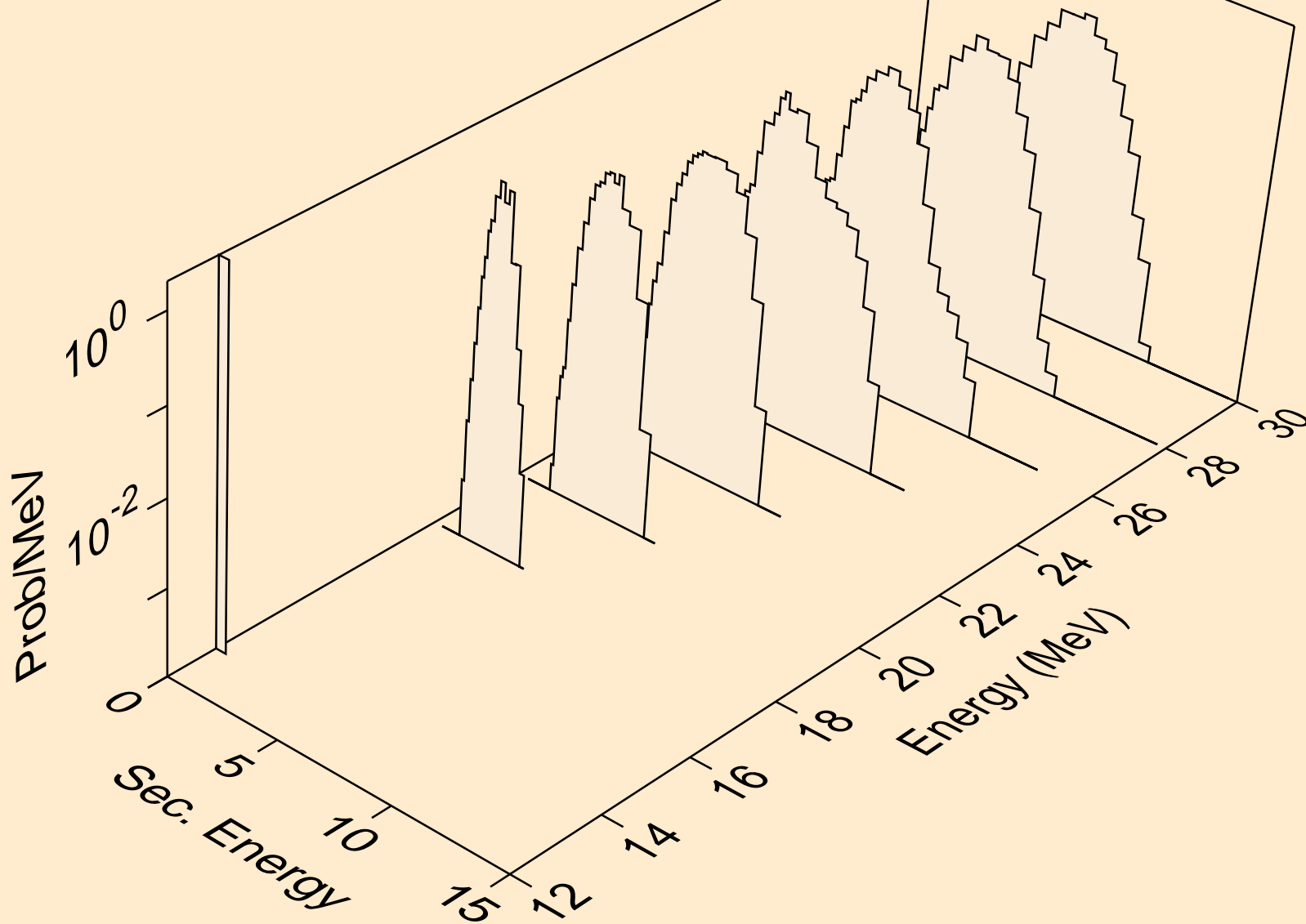
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protons from (n,npa)



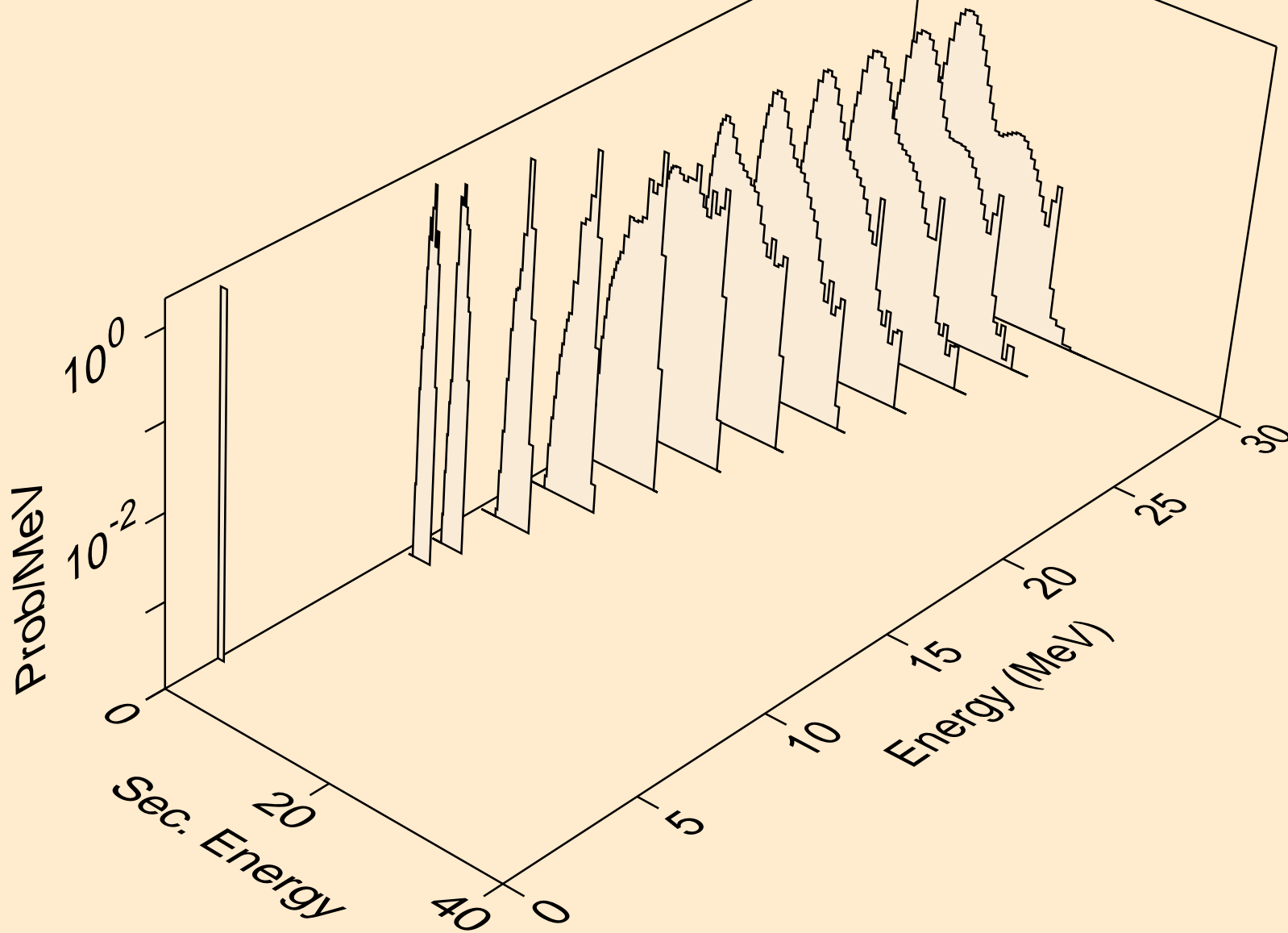
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protons from (n,p)



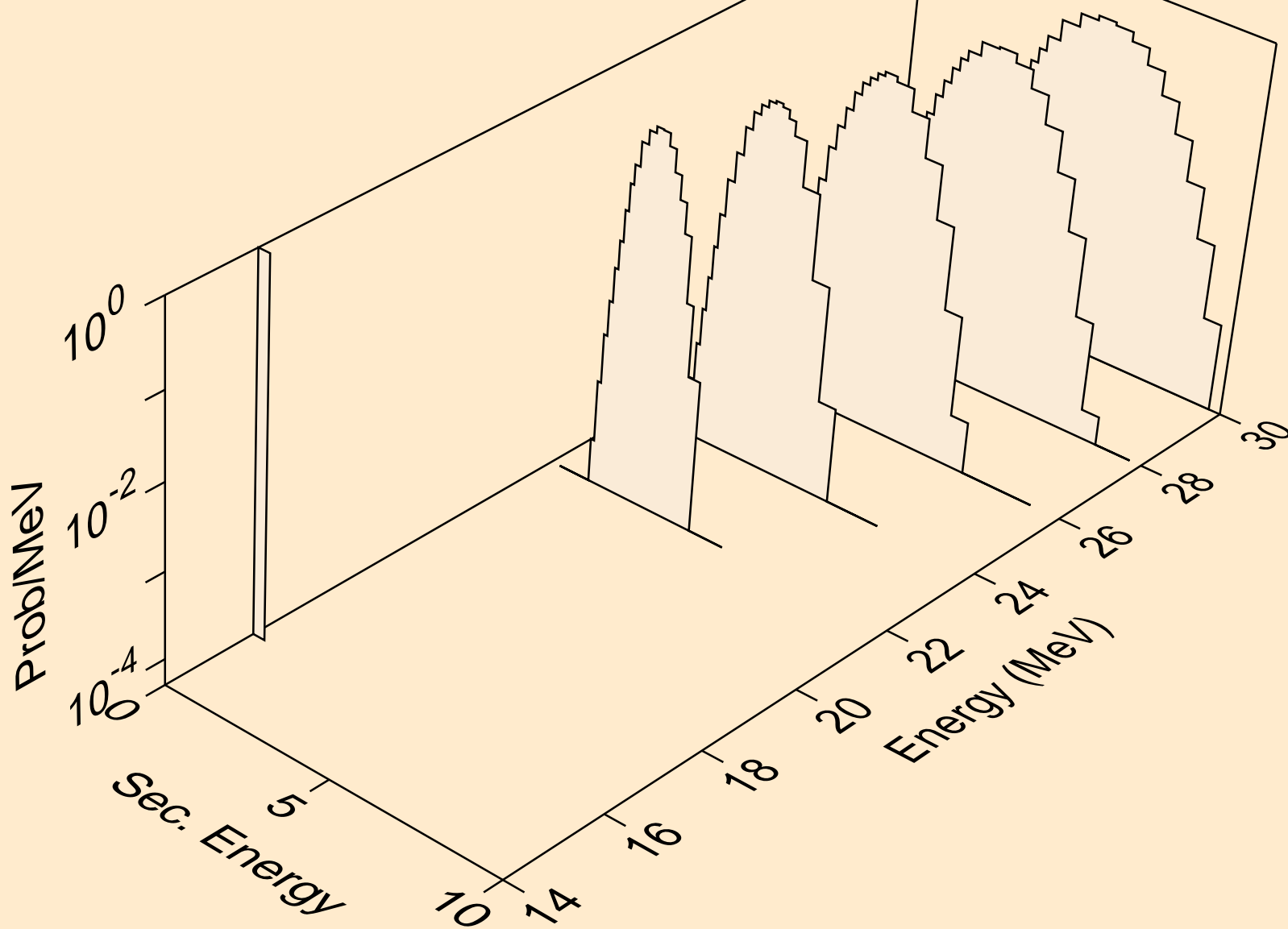
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protons from (n,2p)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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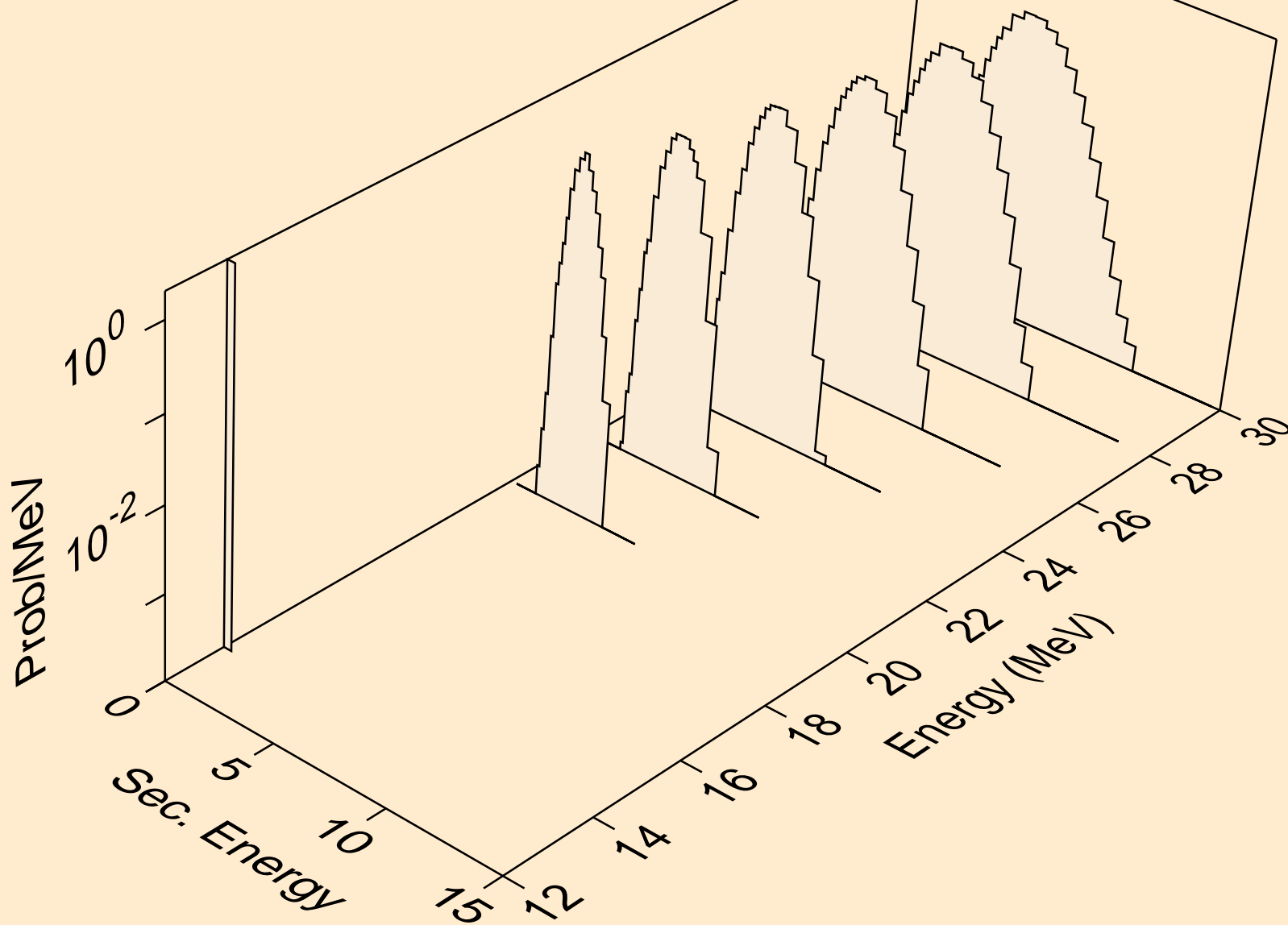


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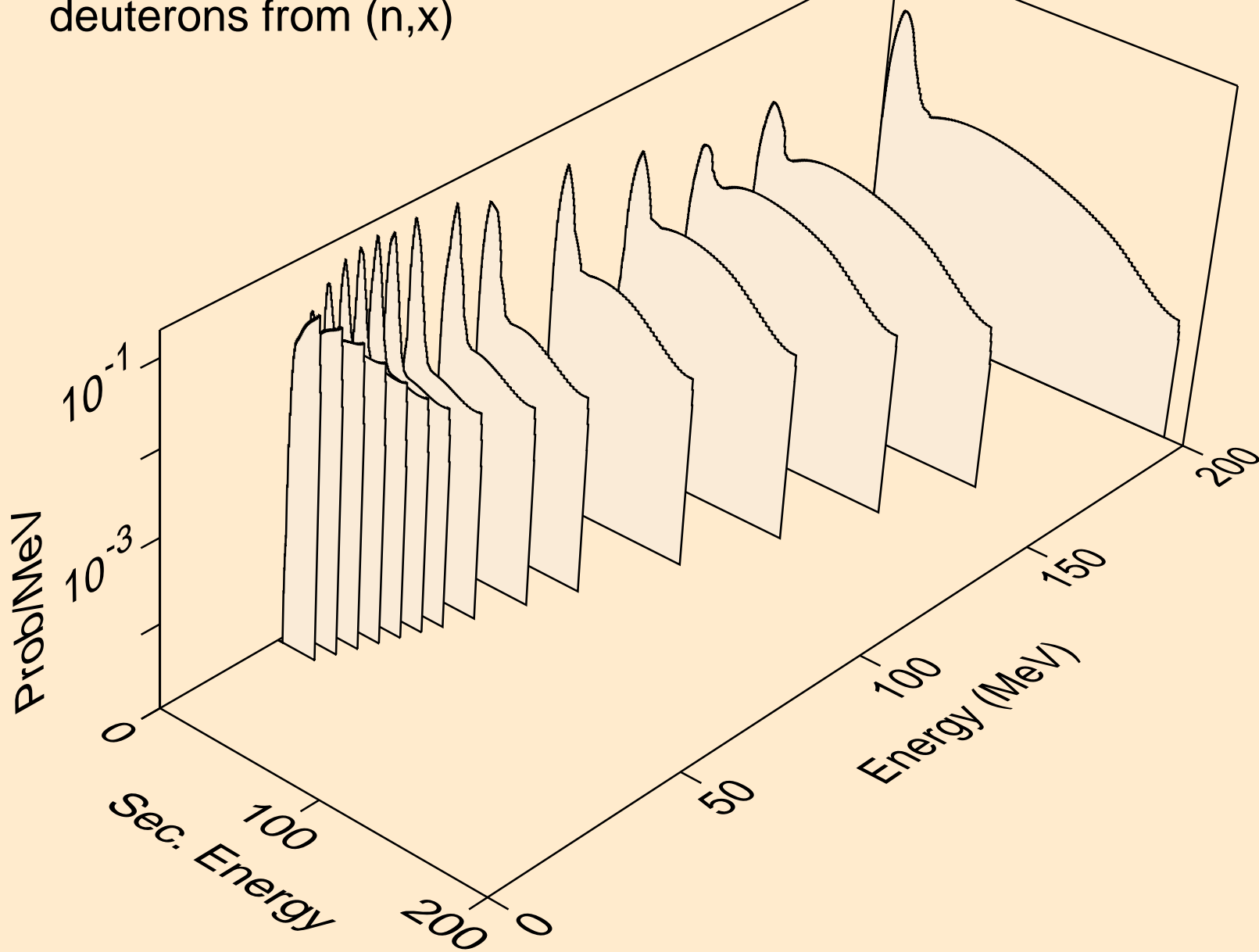




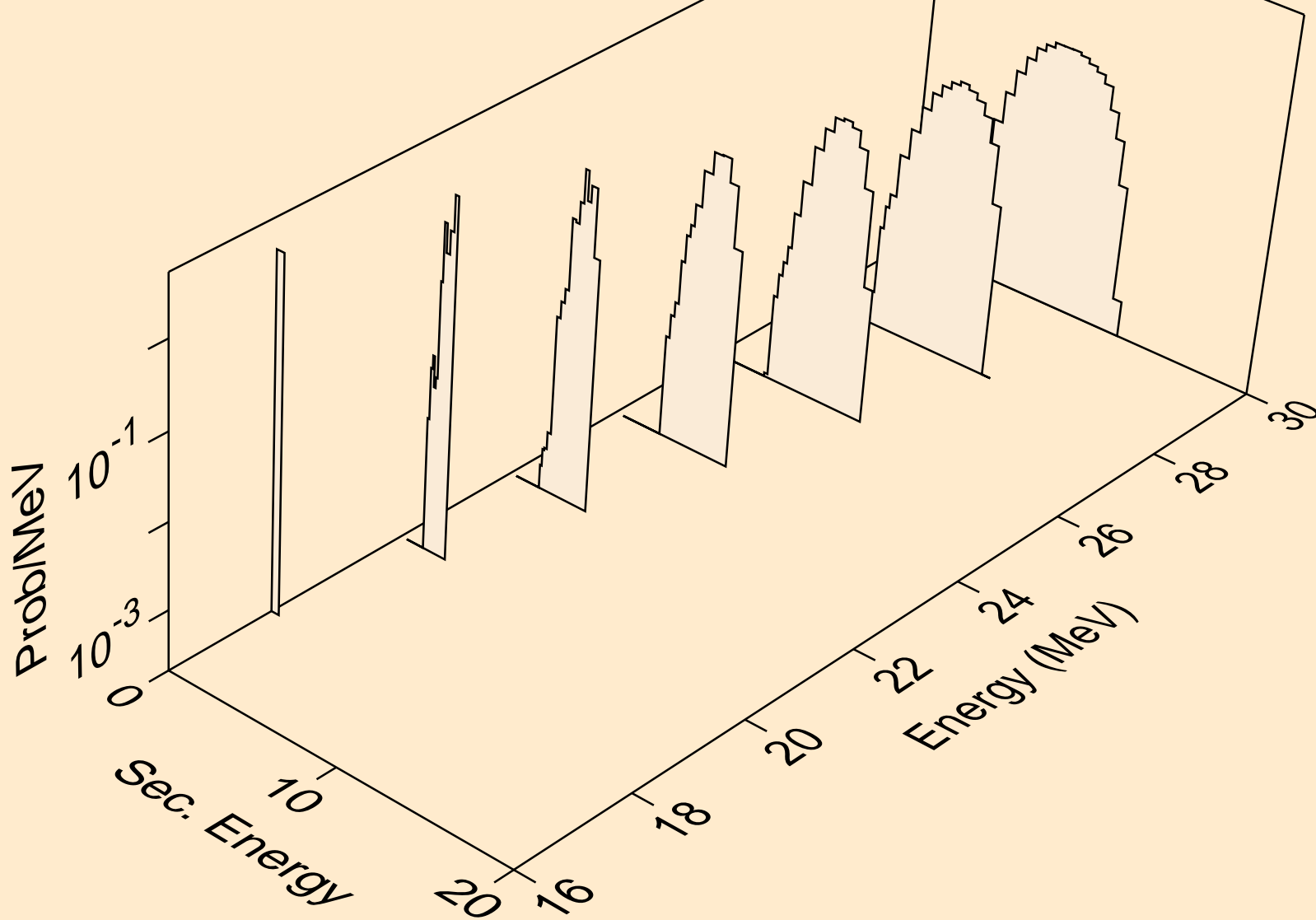
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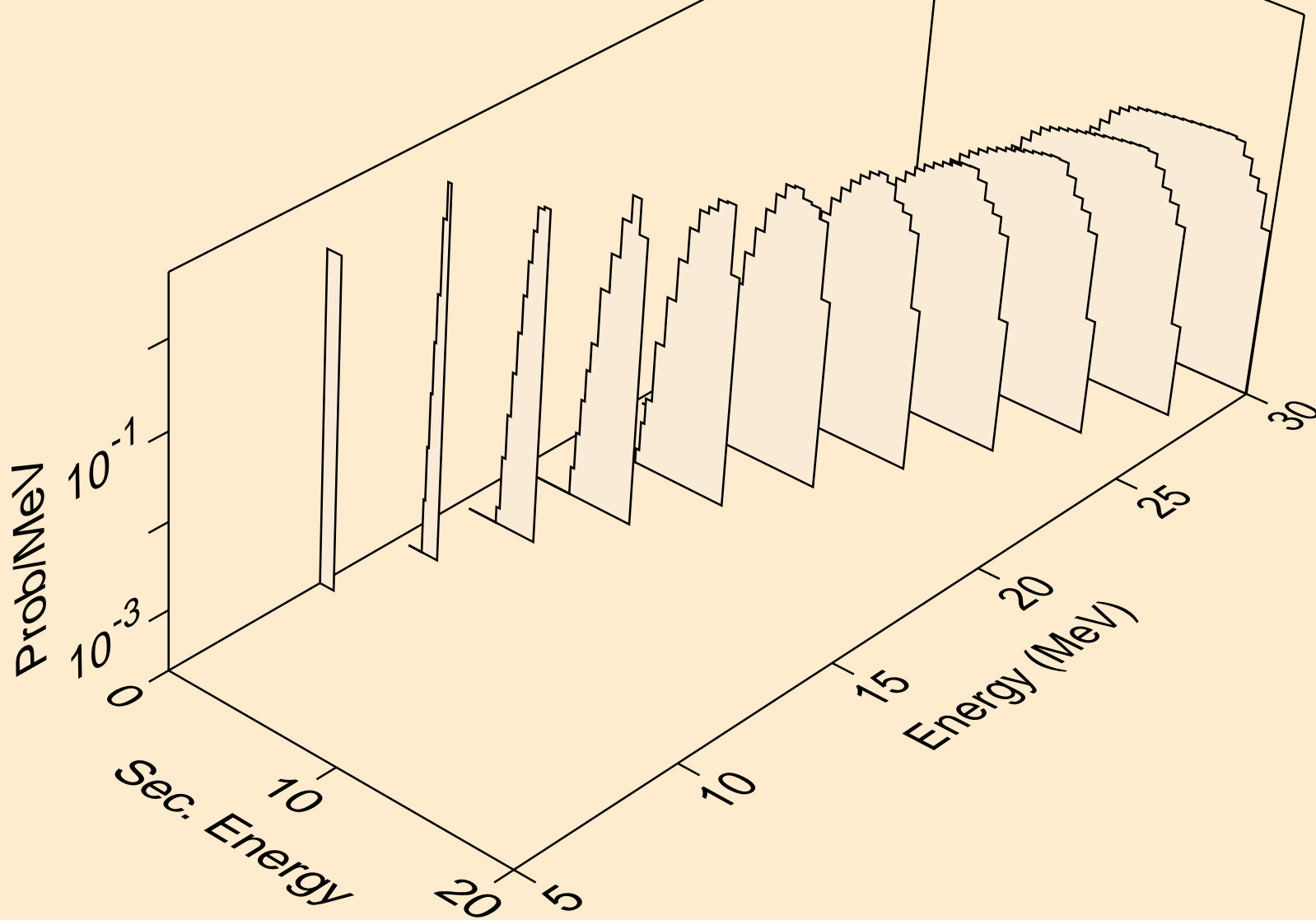
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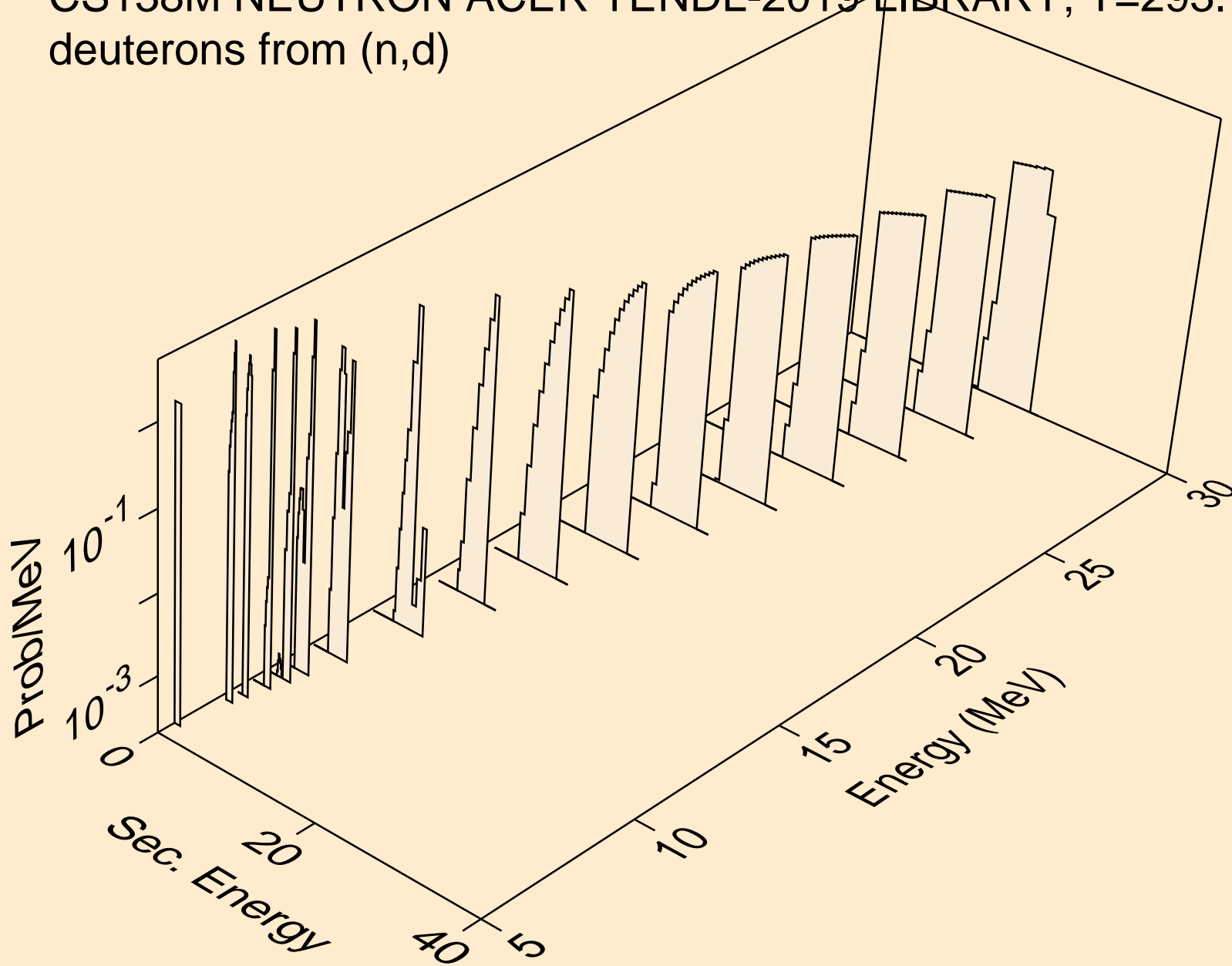
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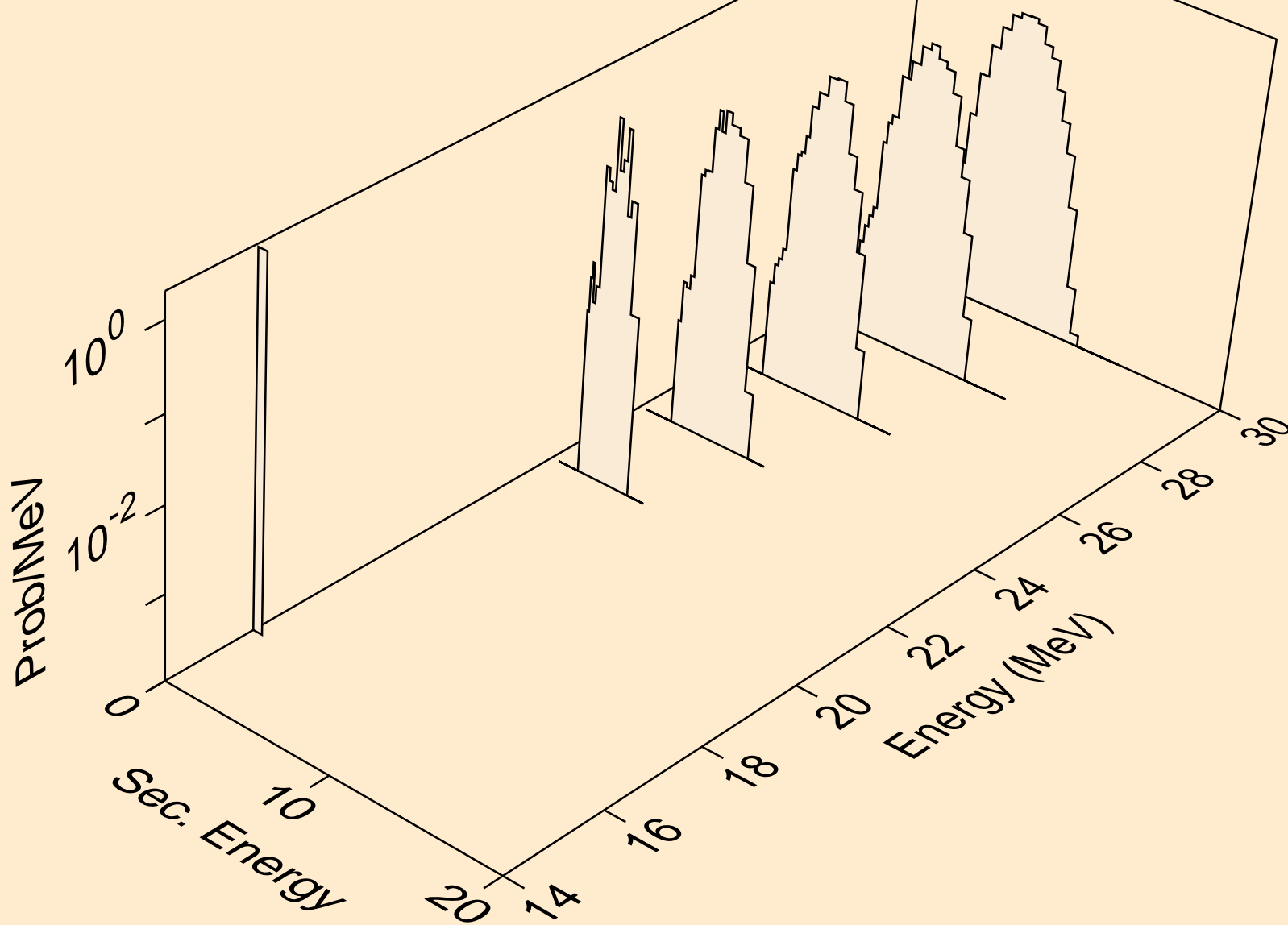
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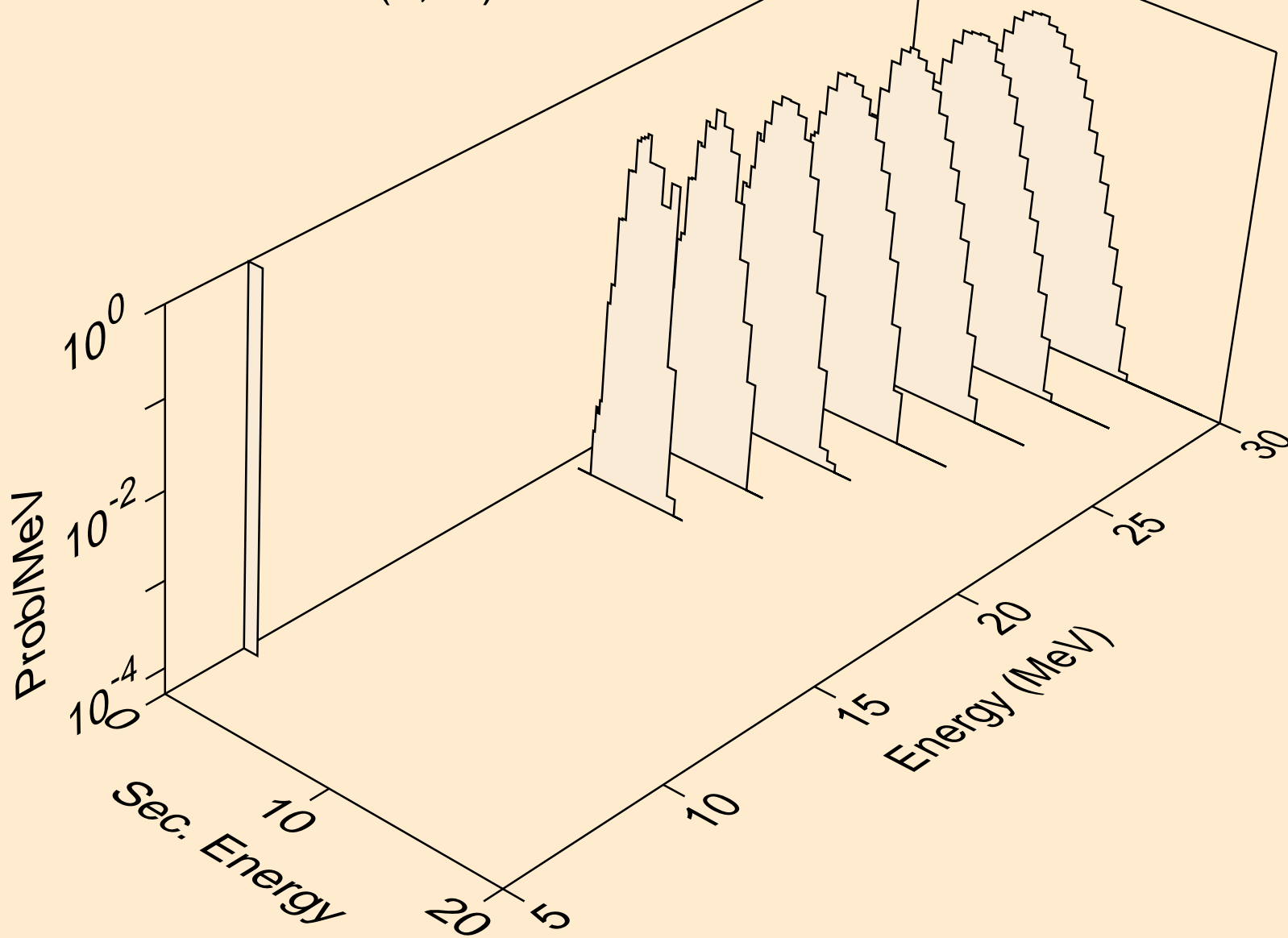
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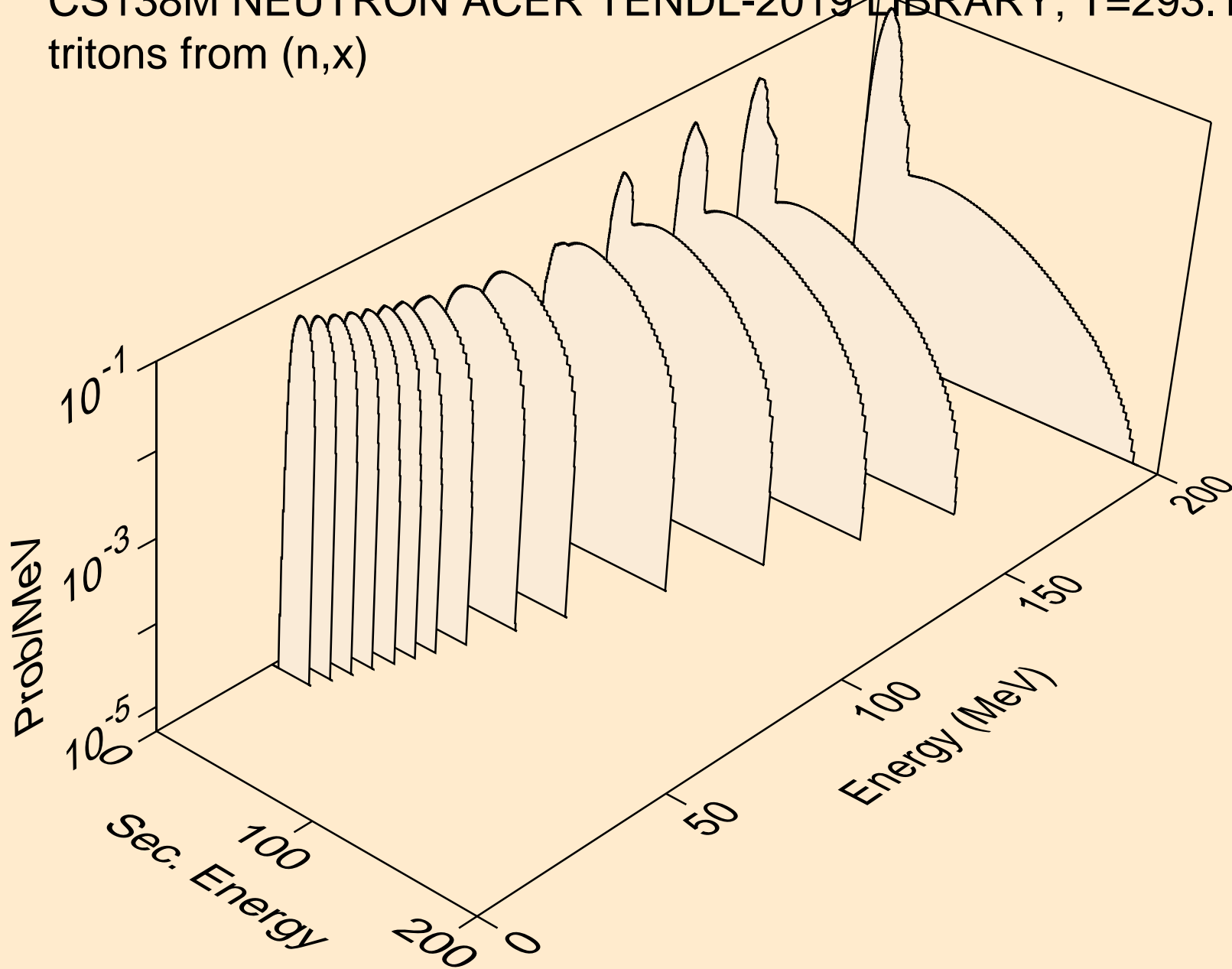
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CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,da)

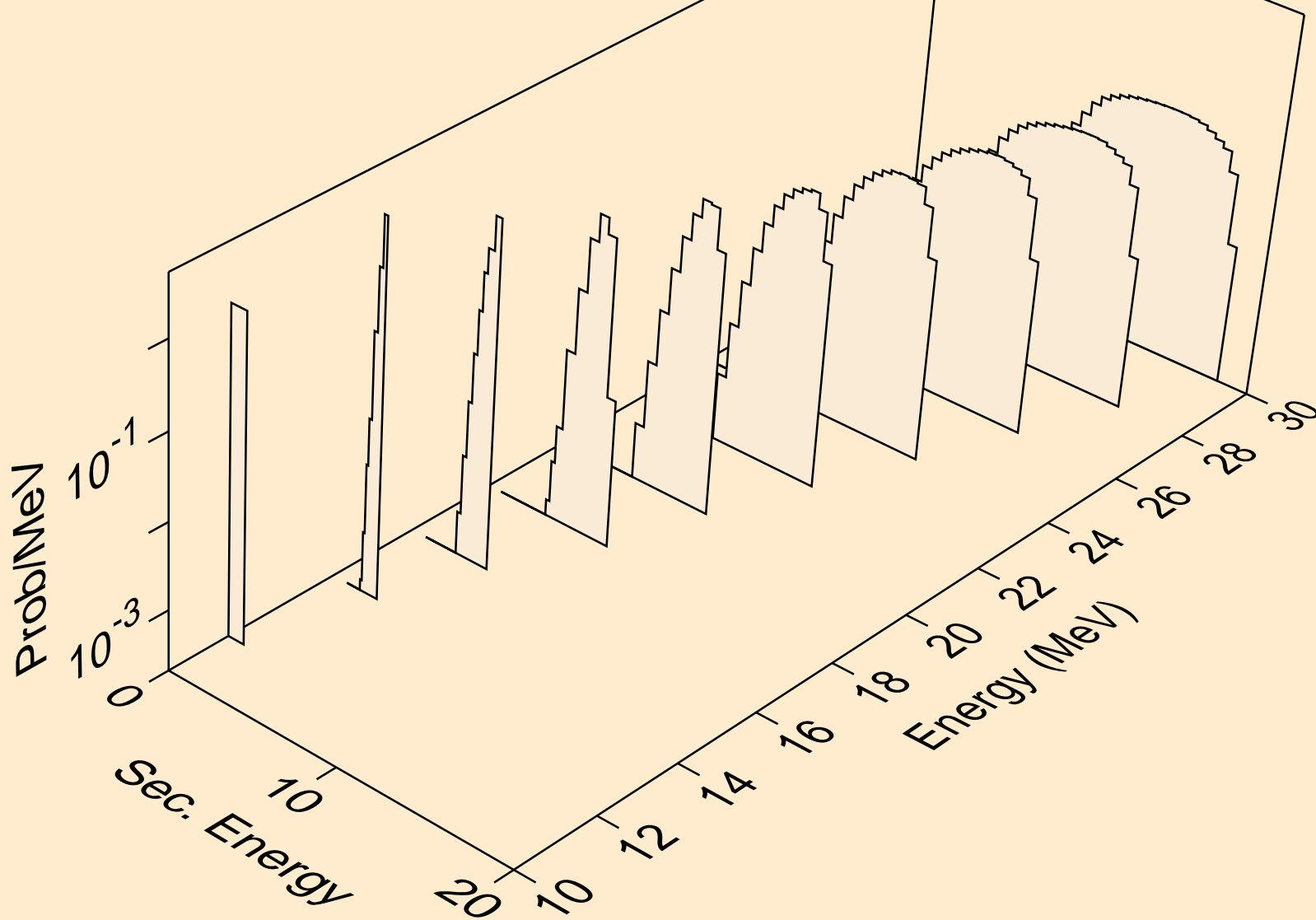


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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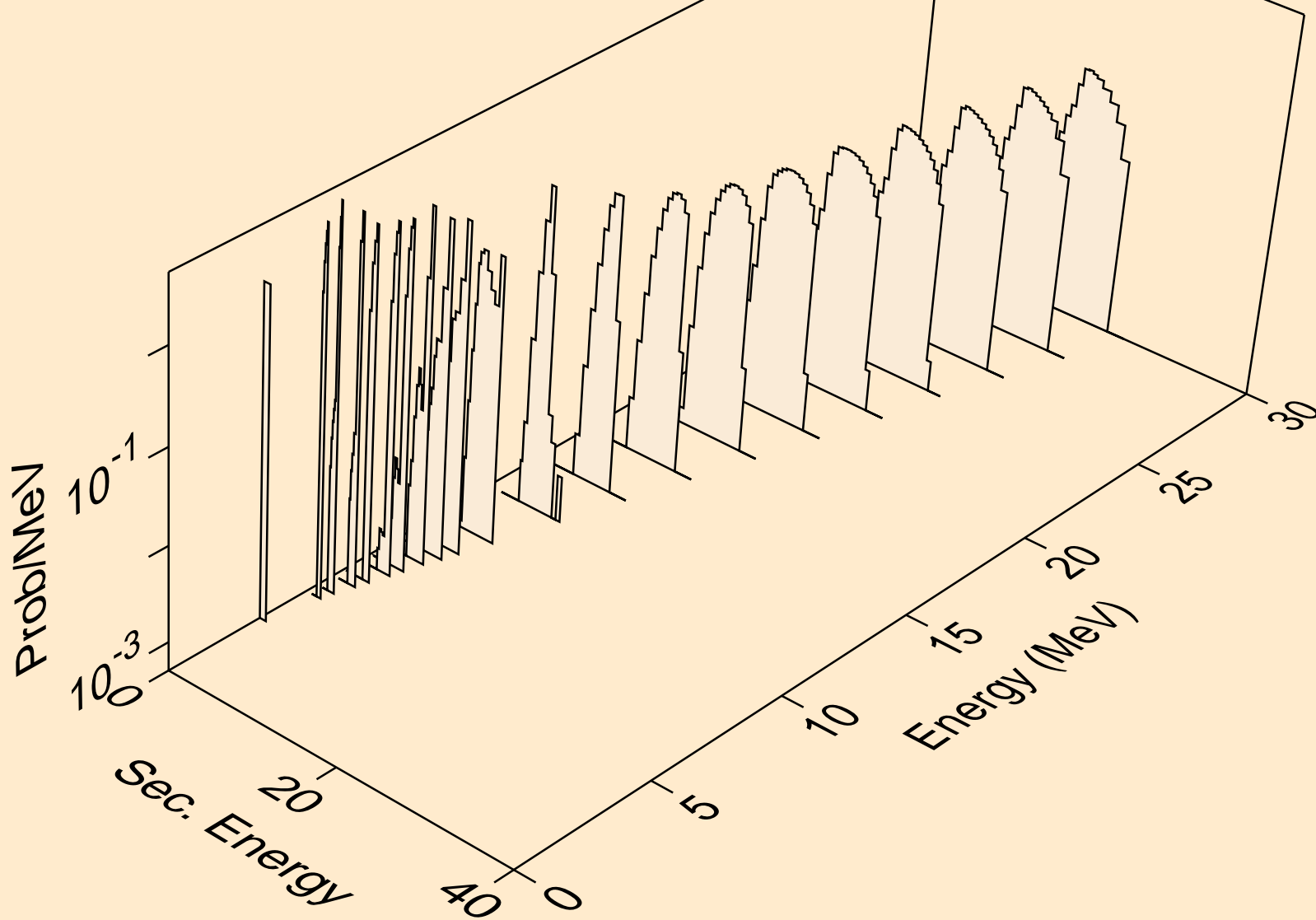




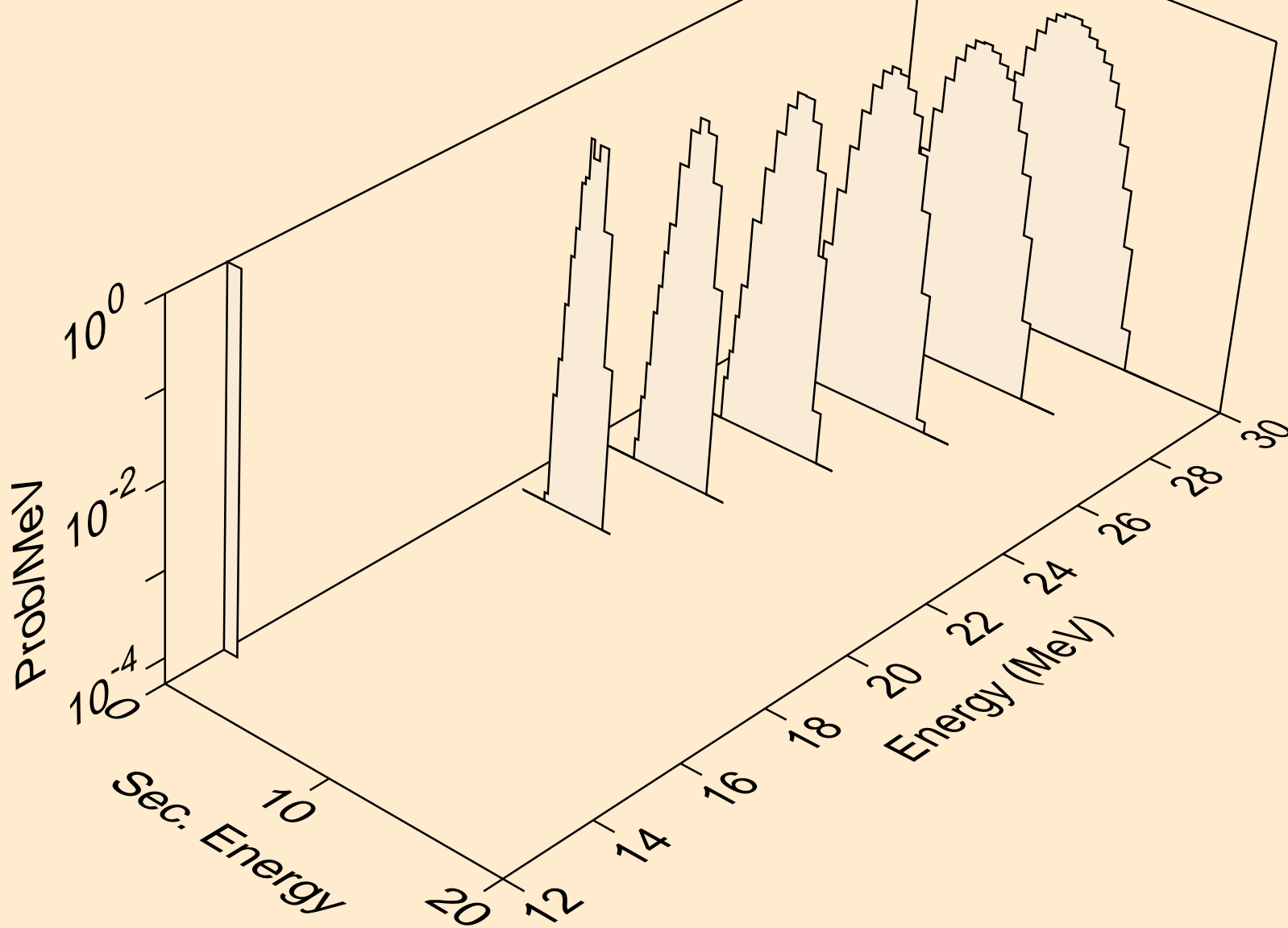
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tritons from (n,n\*)t



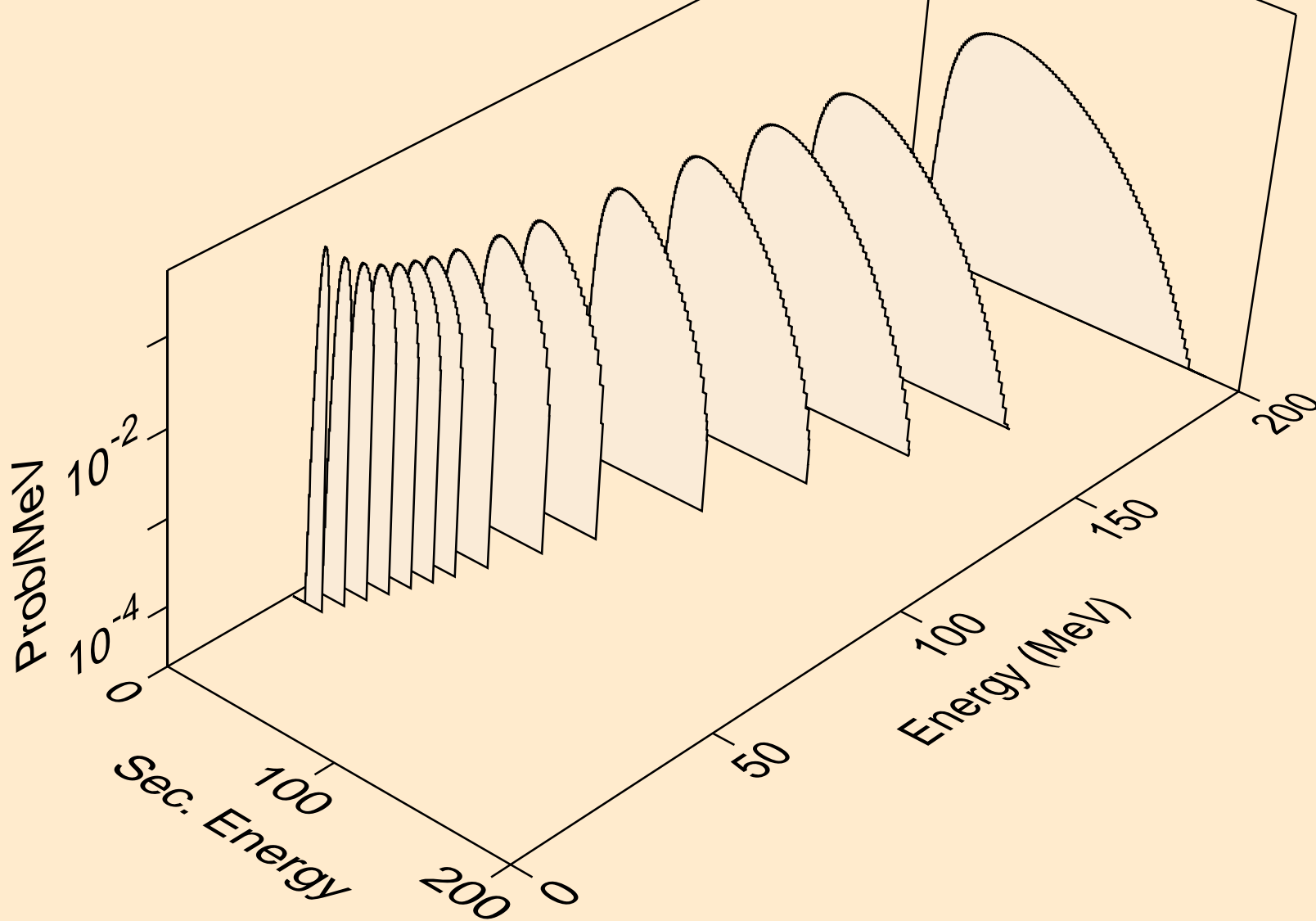
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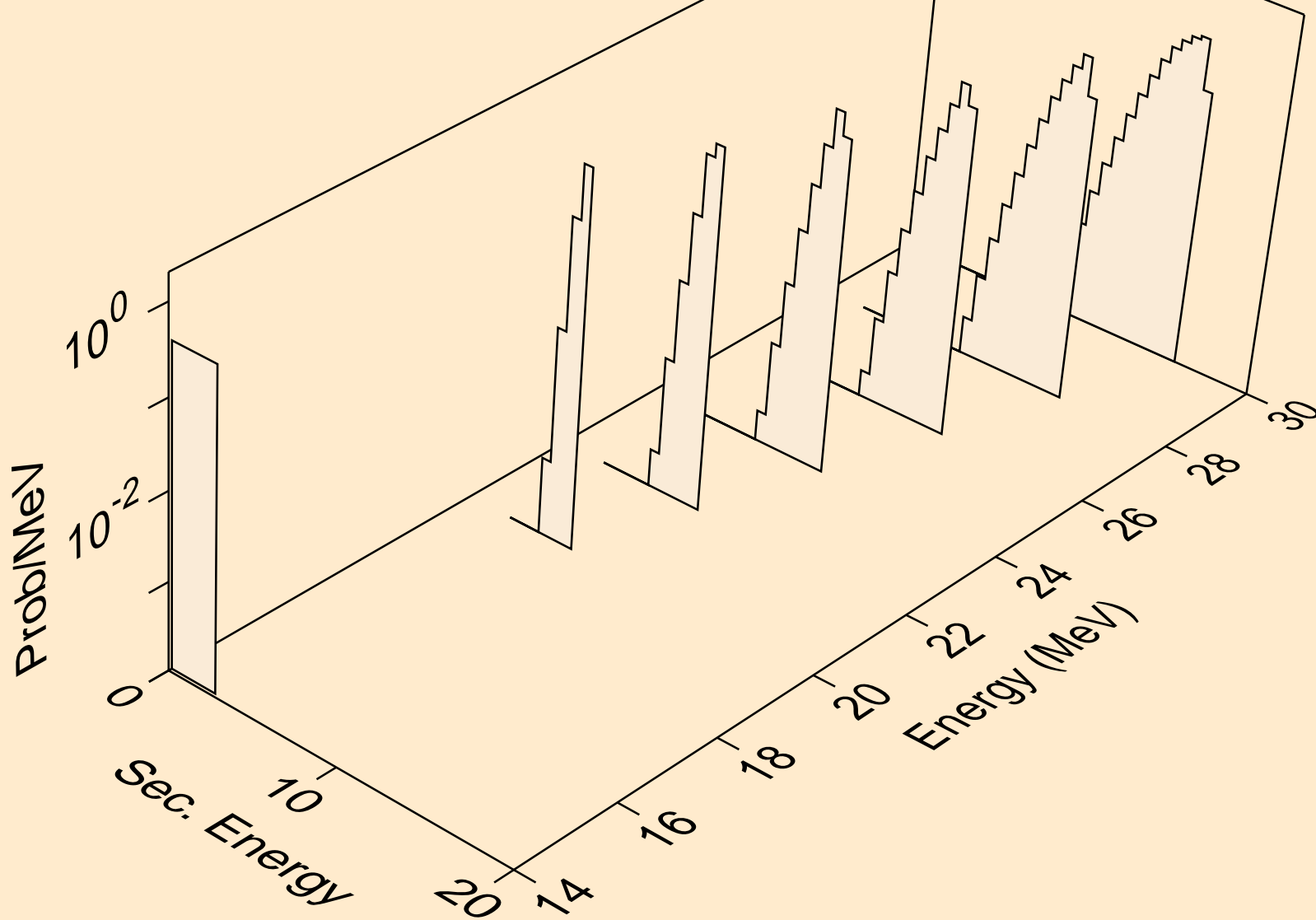
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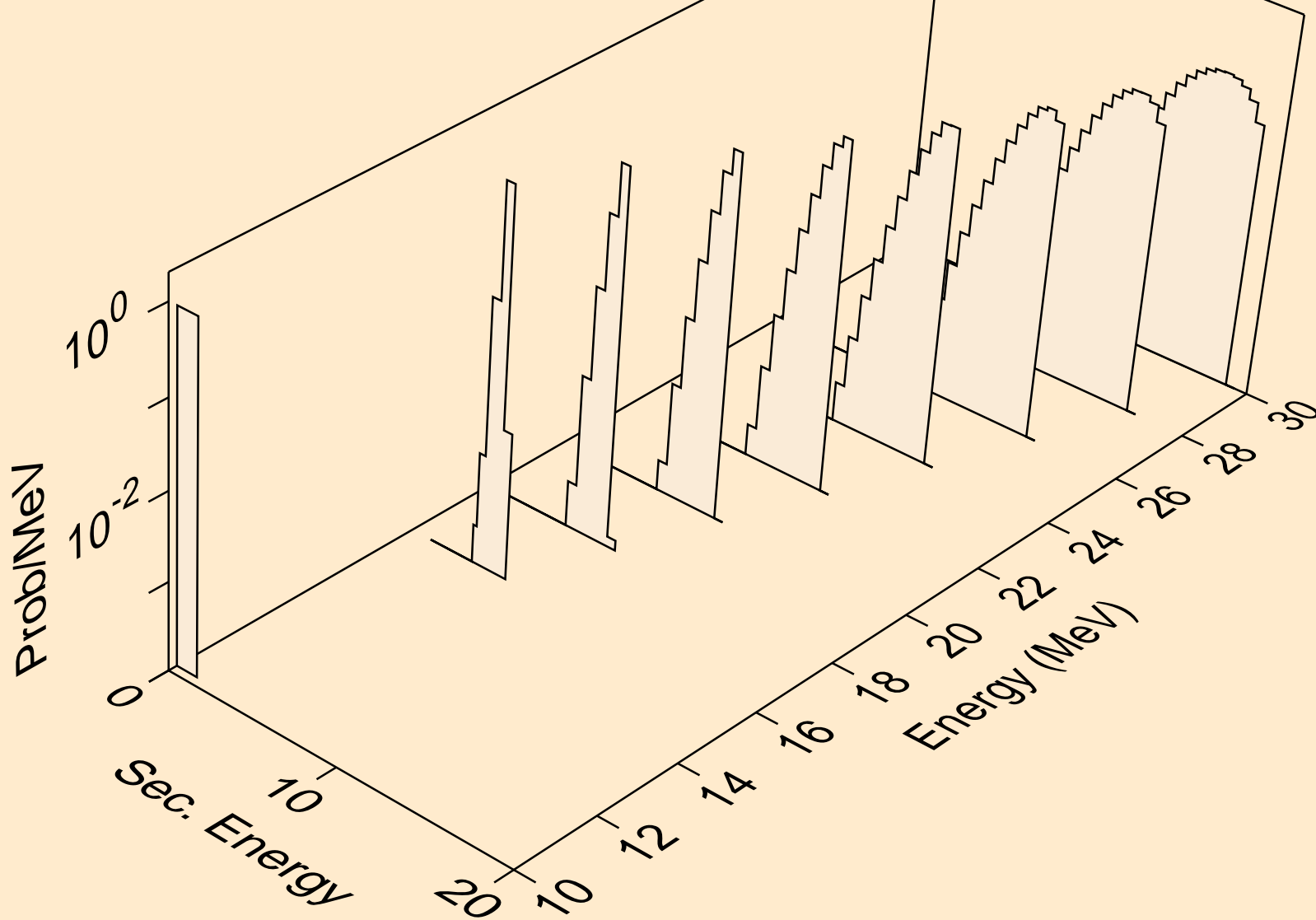
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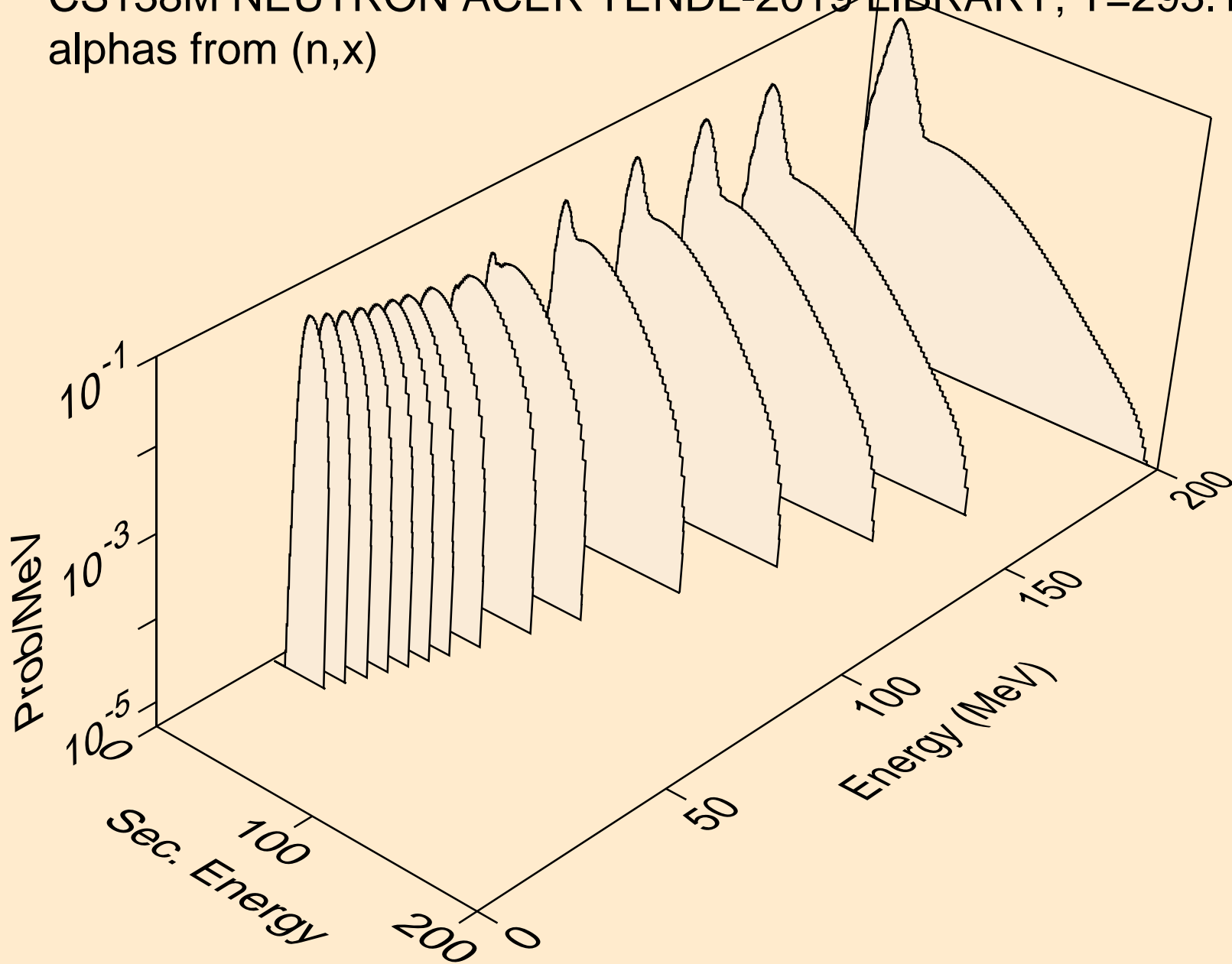
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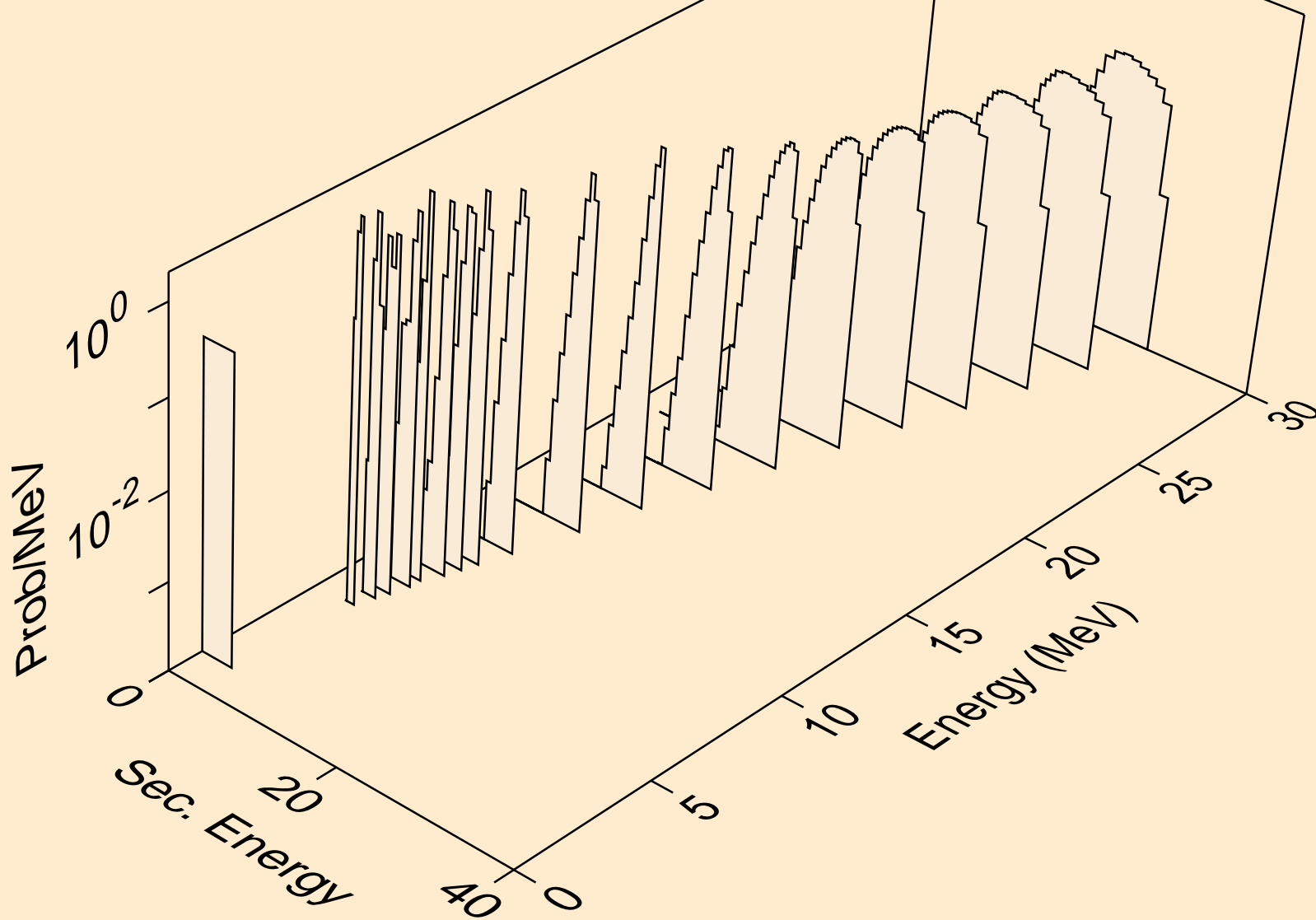
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he3s from (n,he3)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

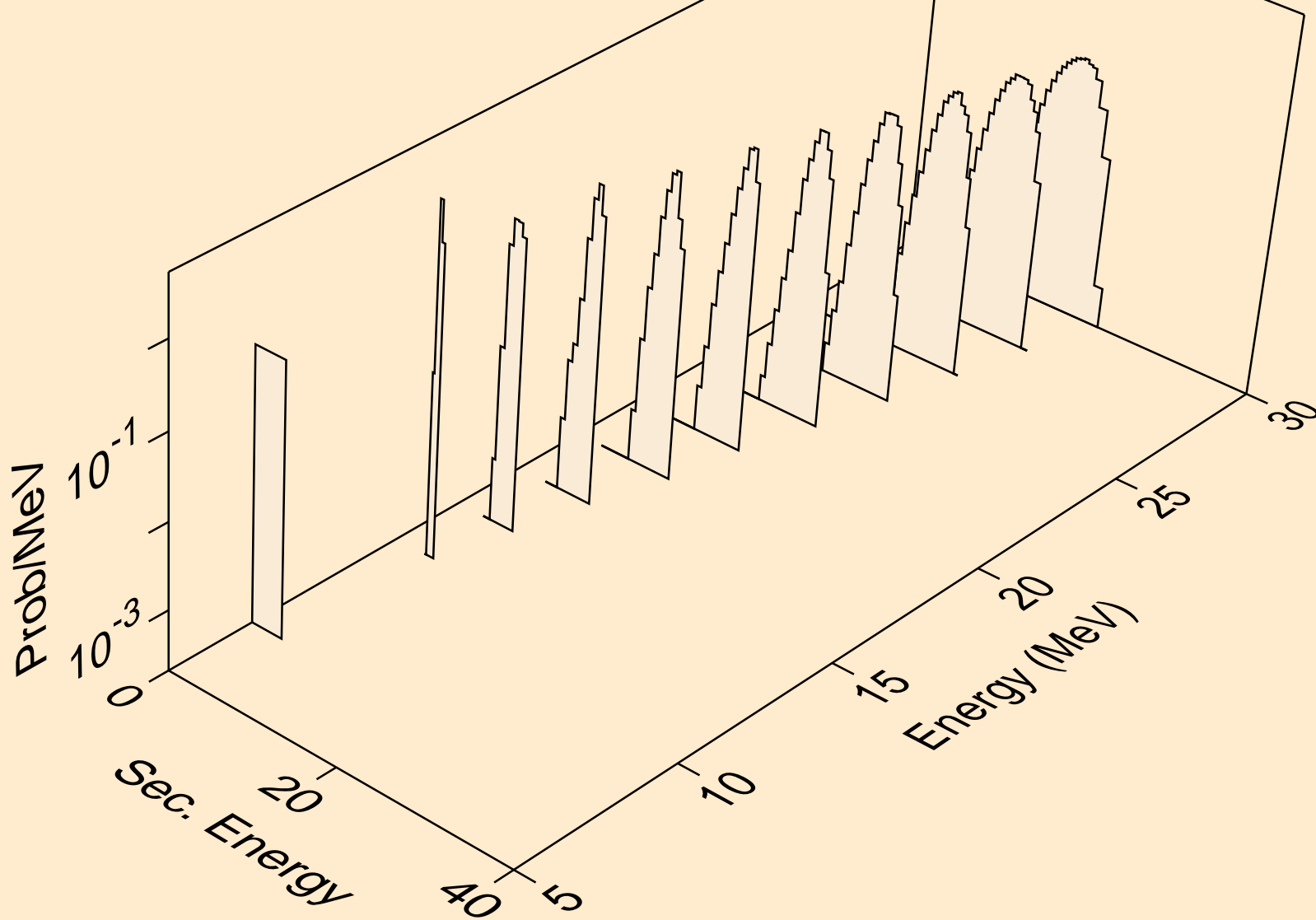


CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

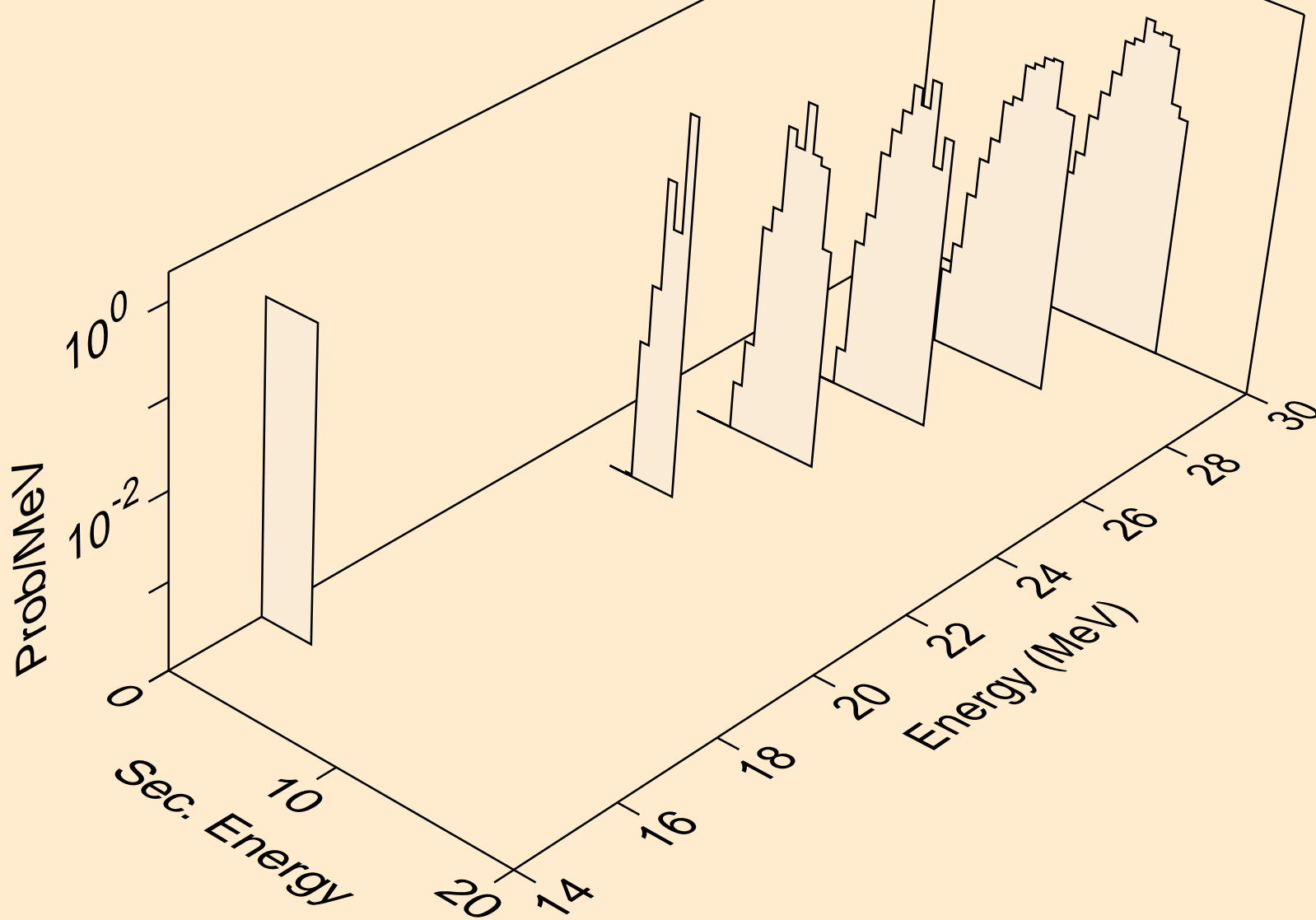




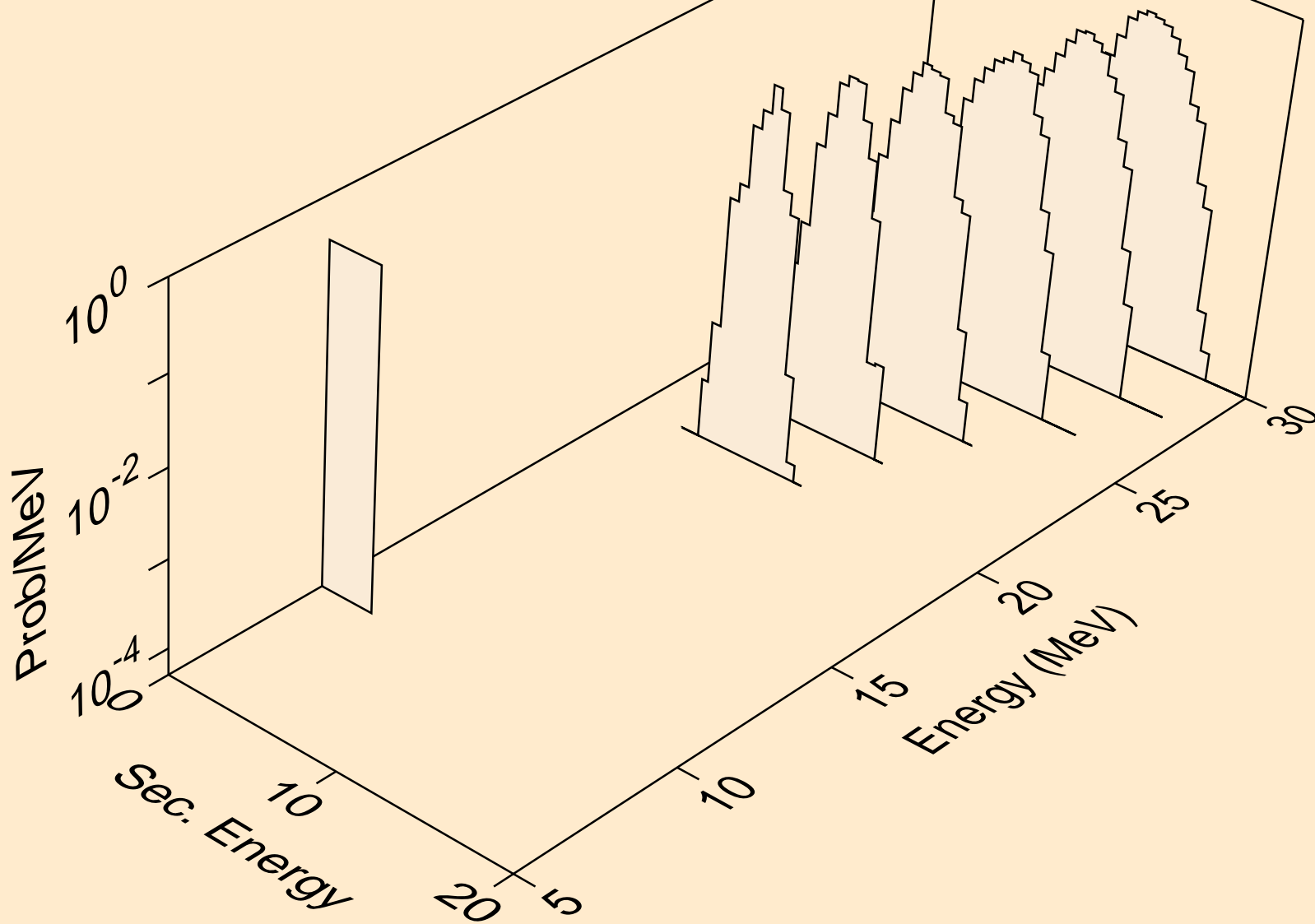
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alphas from (n,2n)a



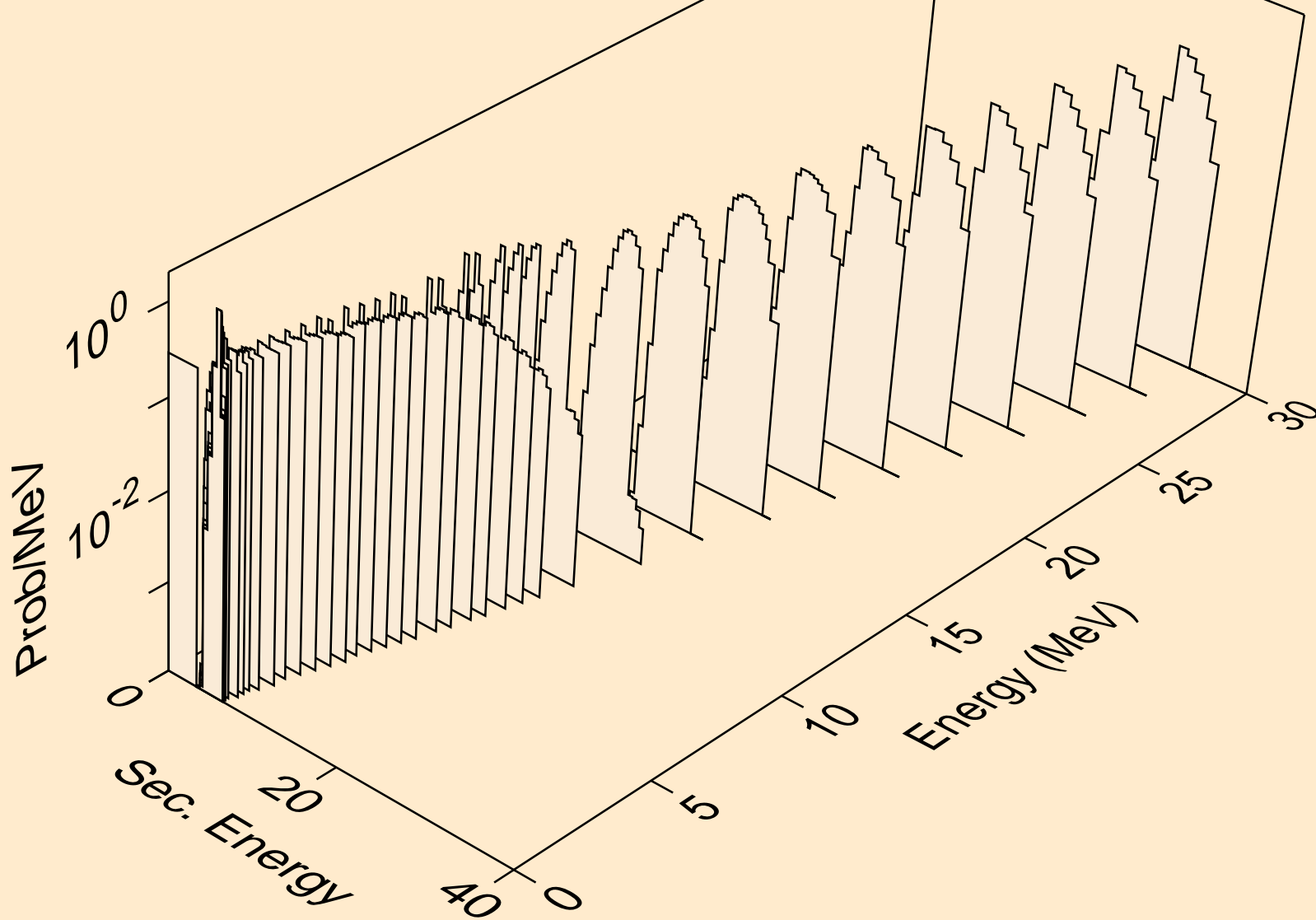
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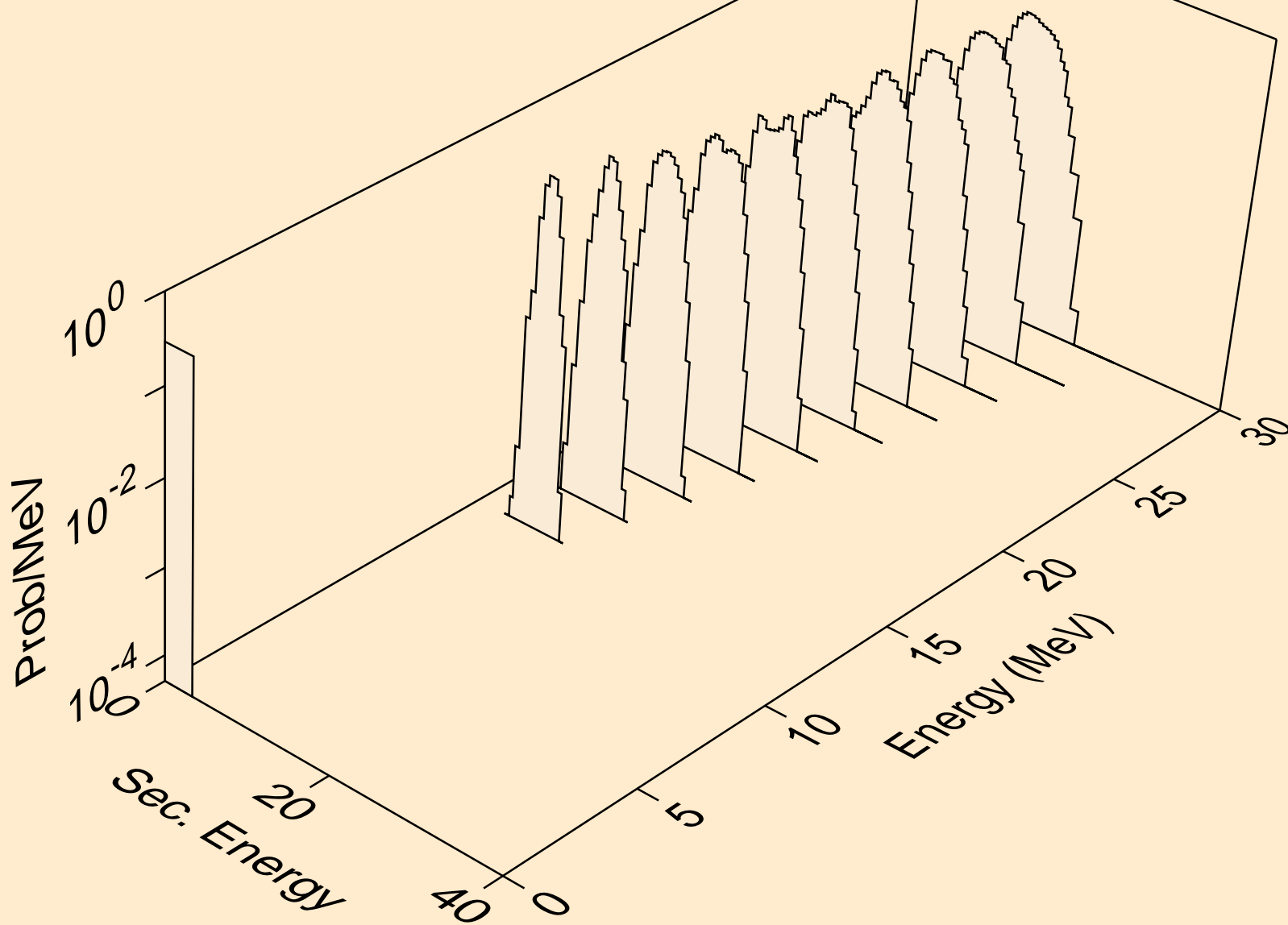
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alphas from (n,npa)



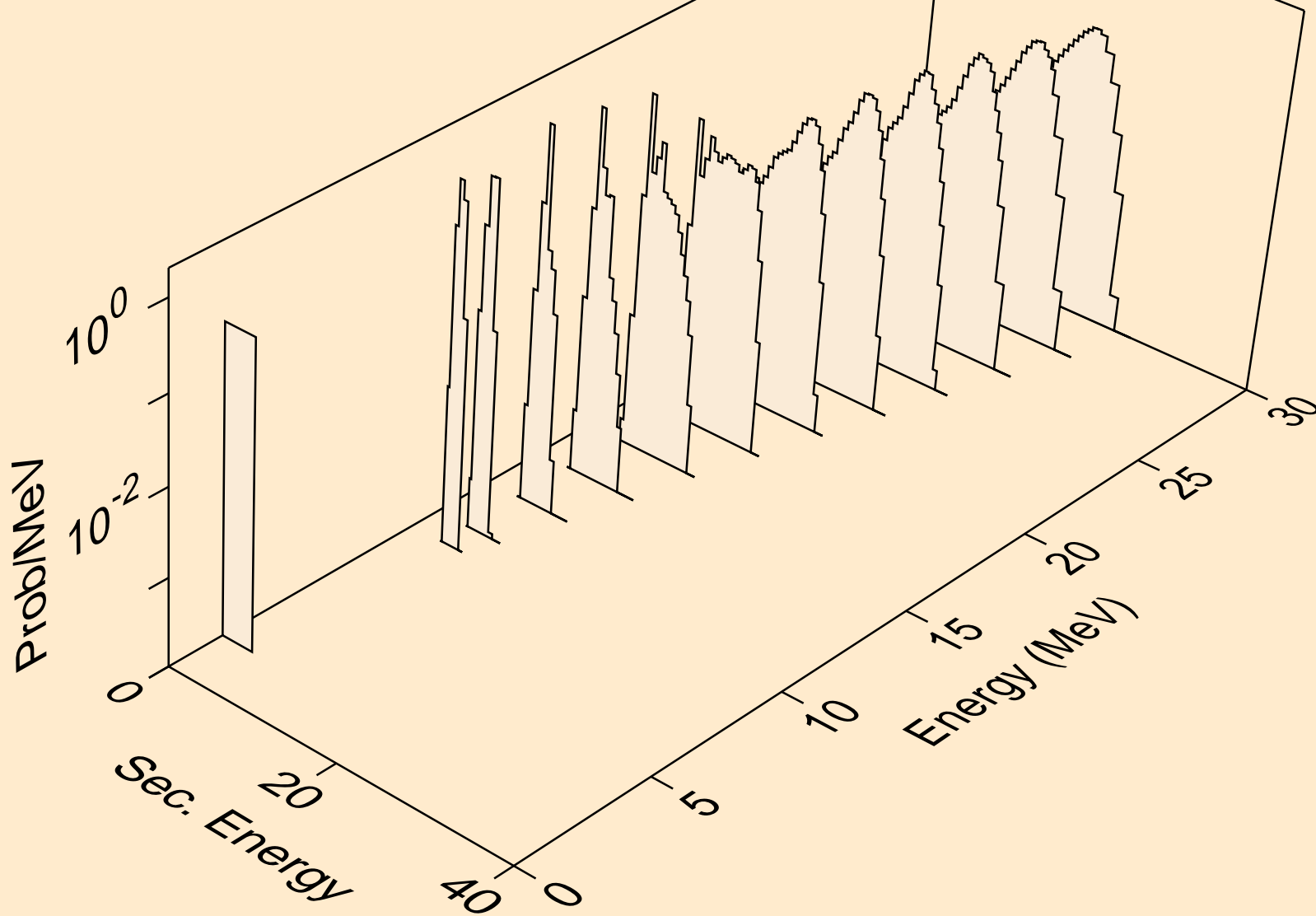
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alphas from (n,a)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



CS138M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

